# TC-EX66

# SERVICE MANUAL

*AEP Model*
*UK Model*
*E Model*

This set is the cassette deck section in MHC-EX66.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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| | |
|---|---|
| Model Name Using Similar Mechanism | NEW |
| Tape Transport Mechanism Type | TCM-ACLM578 |

## SPECIFICATIONS

| | |
|---|---|
| Track method | 4-track, 2-channel stereo |
| Fast forward time | Approx. 120 seconds (for C-60) |
| Frequency response | |
| With DOLBY NR set to OFF | |
| TYPE-IV tape: | 30 – 15,000 Hz, ±3 dB |
| | 20 – 16,000 Hz, ±6 dB |
| TYPE-II tape: | 30 – 15,000 Hz, ±3 dB |
| | 20 – 16,000 Hz, ±6 dB |
| TYPE-I tape: | 30 – 14,000 Hz, ±3 dB |
| | 20 – 15,000 Hz, ±6 dB |
| Overall S/N ratio | 57 dB (TYPE-IV tape) |
| Distortion | |
| 315 Hz, tertiary higher harmonic distortion: | |
| | 1.8% (TYPE-II tape) |
| Recording level: | 250 nWb/m |
| Max. recording level audio compensation | |
| For a TYPE-IV tape | |
| DOLBY NR C: | 73 dB |
| DOLBY NR B: | 66 dB |
| DOLBY NR OFF: | 58 dB |
| Dimensions (w/h/d) incl. projecting parts and controls: | Approx. 280 × 90 × 348.5 mm |
| Mass | Approx. 2.6 kg |

Design and specifications are subject to change without notice.

## STEREO CASSETTE DECK

MICROFILM

SONY®

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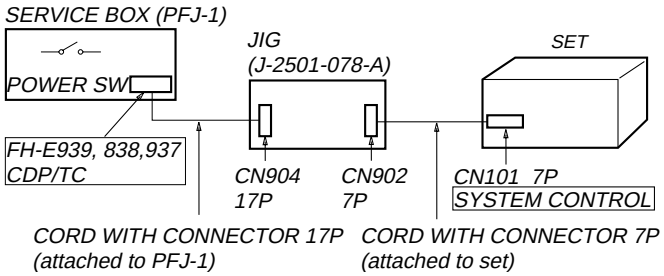
## SERVICING NOTES

### How to operate with a single unit.

Normally, this set is not operated with its own.
The exclusive jig (J-2501-078-A) and service box (PFJ-1) are necessary to operate the set with a single unit.
Turn the power set of the service box ON. Then press the [ENTER/NEXT] button and [SLEEP] button at the same time to turn the power on.

**Connection:**




### • KEY/FL tube/LED check mode.

To enter KEY/FL tube/LED check mode, press the [ENTER/NEXT] and [REC] buttons at the same time.
Under mode, every time when press any key or turn [MULTI CONTROLLER] knob, change to next situation.

① All LED indicators light on
② All FL tube indicators light on
③ A part of FL tube light on mode 1. (Indicated ST-SEG)
④ A part of FL tube light on mode 2. (Indicated RDS-SEG)
⑤ KEY check mode

**Note:**
1) All LED light on mode is kept, when buttons which is pressed to enter all LED light on mode, release same time.
When release them separate timing, it is moved to next All LED light on mode.

2) After all LED light on mode, light on point remove one by one, when any button pressed or [MULTI CONTROLLER] knob turned.

3) Under KEY check mode, every time buttons pressed numerical value of "KEY" in FL tube increase.
And that time, numerical value of "ECDR" increase when [MULTI CONTROLLER] button turn to + direction, and it decrease turn to – direction.

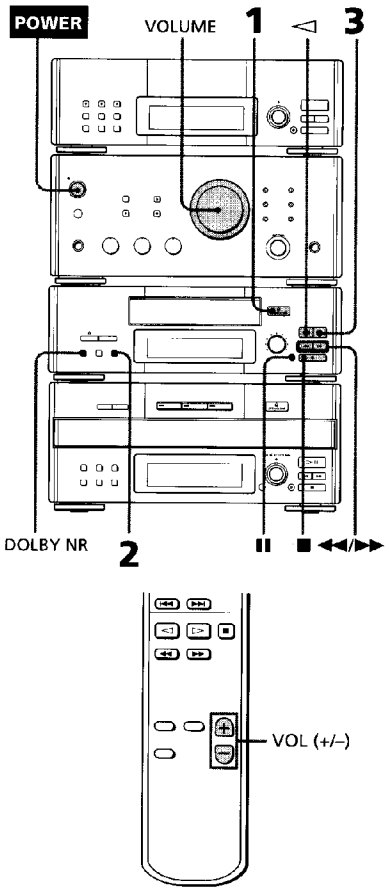
When you want to finish this mode, unplug the power of amplifier or turn off PFJ-1 of POWER switch.

# Playing a tape

## (MHC-EX66 or the optional TC-TX77 users only)

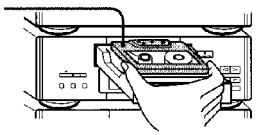
You can use any type of tape, TYPE-I (normal), TYPE-II ($CrO_2$) and TYPE-IV (metal), since the deck automatically detects the tape type (ATS*).
MHC-EX66 is used for illustration purpose.

* The Automatic Tape Selection (ATS) feature automatically sets the equalization and bias to match the inserted tape type.




**1** Press ⏏ OPEN/CLOSE on the tape deck and insert a recorded tape.
Press ⏏ OPEN/CLOSE again to close the tray.

With the side you want to play facing up



**2** Press DIRECTION repeatedly to select the side you want to play.
Select ⇄ to play one side. Select ↻ to play both sides once. To play both sides in succession, select ↻*.

**3** Press ▷.
Press ◁ to play the reverse side. Playback starts.

* The deck stops automatically after repeating the sequence five times.

| To | Do this |
|---|---|
| Stop play | Press ■. |
| Pause | Press II. Press again to resume play. |
| Fast-forward | Press ■, then press ▶▶ (for front side) or ◀◀ (for reverse side). |
| Rewind | Press ■, then press ◀◀ (for front side) or ▶▶ (for reverse side). |
| Select a track (AMS*) | Press ▶▶ (to go forward) or ◀◀ (to go back) during the front side playback. Press ◀◀ (to go forward) or ▶▶ (to go back) during the reverse side playback. |

| To | Do this |
|---|---|
| Remove the tape | Press ⏏ OPEN/CLOSE. |
| Adjust the volume | Turn VOLUME (or press VOL + or – on the remote). |

* The Automatic Music Sensor (AMS) feature detects a blank space of more than four seconds between tracks and locates the track quickly.

### Tips

- Pressing SYSTEM POWER on the DHC-MD77/EX77MD automatically turns on the TC-TX77 deck if you connect them to each other using the audio bus cable.
- Pressing ▷ or ◁ when the power is off automatically turns the power on and starts tape playback if there is a tape in the deck (One Touch Play).
- You can switch from another source to the tape deck just by pressing ▷ or ◁ (Automatic Source Selection).
- To start playing automatically from the beginning of the tape after fast winding (Auto Play), press ▷ while holding down ◀◀ (for front side) or press ◁ while holding down ▶▶ (for reverse side).
- When you want to reduce the hiss noise in low-level high-frequency signals, press DOLBY NR repeatedly to select B or C.

### Notes

The AMS feature may not work properly when:
– The blank space between tracks is less than four seconds long.
– Different material is recorded on the left and right channels (e.g., karaoke tapes with the instrumental music and a singer's voice, foreign language practice tapes, etc.).
– Very low-level signals or low-frequency signals such as a bass saxophone are continuously recorded on the tape.
– The system is placed too close to a TV. (Move the system away from the TV or turn off the TV.)

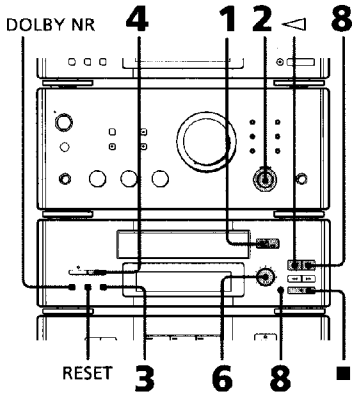


This section is extracted from instruction manual.

**The Tape Deck (MHC-EX66 or the optional TC-TX77 users only)**

# Recording on a tape manually

You can record a CD or an MD as you like, for example, recording just the tracks you want or recording from the middle of the tape.




**1** Insert a blank tape.
To insert a tape, see page 20.

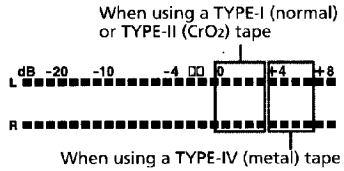
**2** Turn FUNCTION to select the sound source to be recorded.
When you record from the radio, tune in the desired radio station.
When you record the sound of a TV or VCR, select "VIDEO 1" or "VIDEO 2/AUX" (or "VIDEO 2" for DHC-MD77).
See page 13 for details.

**3** Press DIRECTION repeatedly to select the side you want to record on.
Select ⇄ to record on one side. Select ⮌ or ⮎ to record on both sides.

**4** Press ● REC on the tape deck.
The tape deck stands by for recording. "PLAY ▷ ❚❚ REC" (for front side) appears.

**5** Start playing the source to be recorded.

**6** Turn REC LEVEL to adjust the recording level.
While monitoring the sound at the highest level, adjust the recording level so that it falls within the range illustrated below.




**7** Stop playing the source.

**8** Press ❚❚ or ▷ on the tape deck.
Recording starts.

**9** Start playing the source to be recorded.

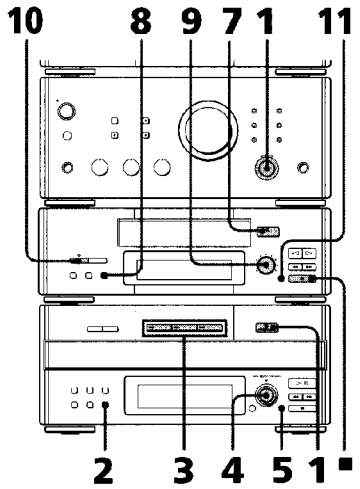
| To | Press |
|---|---|
| Stop recording | ■ on the tape deck. |
| Pause recording | ❚❚ on the tape deck. |

**Tips**

- Pressing SYSTEM POWER on the DHC-MD77/EX77MD automatically turns on the TC-TX77 deck if you connect them to each other using the audio bus cable.
- If you want to record from the reverse side, press ◁ in step 4 so that "◁ PLAY ❚❚ REC" (for reverse side) appears.
- When you want to reduce the hiss noise in low-level high-frequency signals, press DOLBY NR repeatedly to select B or C before step 4. You cannot switch DOLBY NR during recording.
- If you press RESET, the counter display returns to "00 00."

# Recording the favorite CD tracks on a tape

You can select your favorite CD tracks with the Program Play feature, then record the program on a tape using the CD Synchro Recording feature.



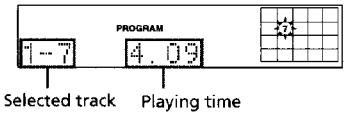

## Selecting the tracks

**1** Turn FUNCTION until the CD indicator lights up, then place a CD (CDs) on the disc tray.

**2** Press PROGRAM.
"PROGRAM" appears.

**3** Press one of the DISC 1 – 3 buttons to select a CD.

**4** Turn SELECTOR until the desired track number appears.




**5** Press ENTER.
The track is programmed. The last programmed track appears, followed by the total playing time.

**6** To program additional tracks, repeat steps 3 to 5.
Skip step 3 if you select a track from the same disc.

## Recording on a tape

**7** Insert a blank tape.
To insert a tape, see page 20.

**8** Press DIRECTION repeatedly to select the side you want to record on.
Select ⇄ to record on one side. Select ⮌ or ⮎ to record on both sides.

**9** Turn REC LEVEL to adjust the recording level.
See "Recording on a tape manually" for details.

**10** Press CD SYNC on the tape deck.
The tape deck stands by for recording and the CD is in pause for playback. The CD SYNC indicator lights up and "PLAY ▷ II (REC)" (for front side) appears.

**11** Press II on the tape deck.
Recording starts.

### To stop recording

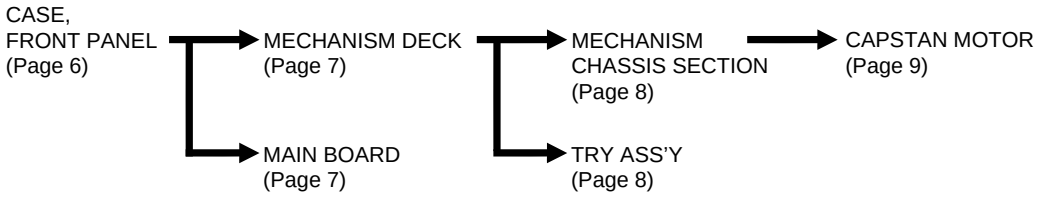
Press ■ on the tape deck or the CD player.

### Tips

- Pressing SYSTEM POWER on the DHC-MD77/EX77MD automatically turns on the TC-TX77 deck if you connect them to each other using the audio bus cable.
- If you want to record from the reverse side, press ◁ in step 10 so that "◁ PLAY II (REC)" (for reverse side) appears.
- When you record on both sides, be sure to start from the front side. If you start from the reverse side, recording stops at the end of the reverse side even though you select ⮎.
- When you want to reduce the hiss noise in low-level high-frequency signals, press DOLBY NR repeatedly to select B or C before step 9. You cannot switch DOLBY NR during recording.
- If the tape reaches the end of its front side while dual-sided recording, the fadeout feature works so that a track is not abruptly cut off at the end of the tape (Fade Synchro). The track will be recorded again from the beginning on the reverse side. The Fade Synchro feature works during one-side recording, too.
- You cannot perform CD Synchro Recording by pressing the CD SYNC buttons on both the tape deck and the MD deck at the same time.
  Use the CD Synchro Recording feature for a tape and record on an MD manually. This method is recommended since on the MD deck, you can erase the overlapping track recorded using the Fade Synchro feature just by specifying its track number (Erase Function).

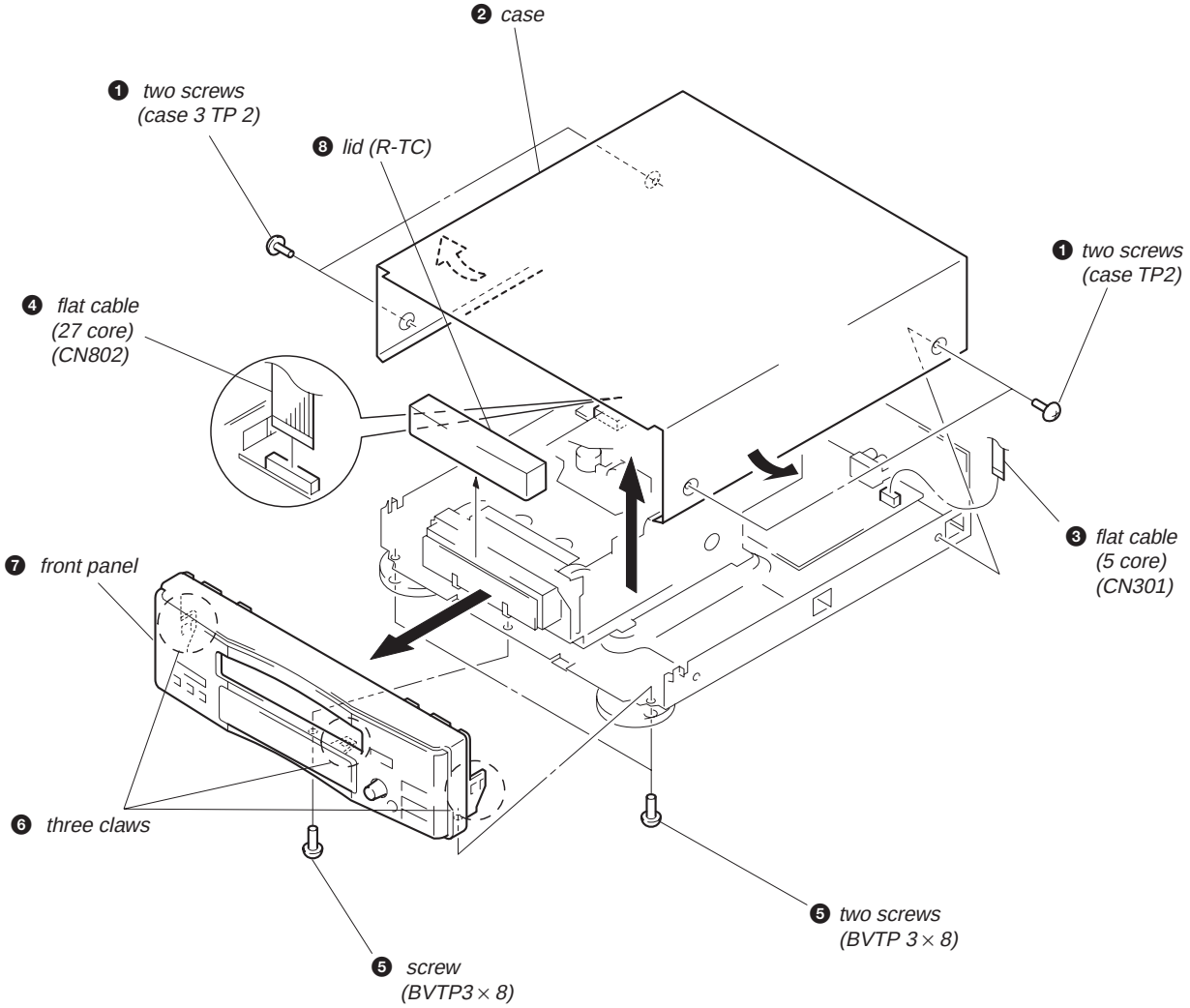
# SECTION 2
# DISASSEMBLY

• This set can be disassembled in the order shown below.

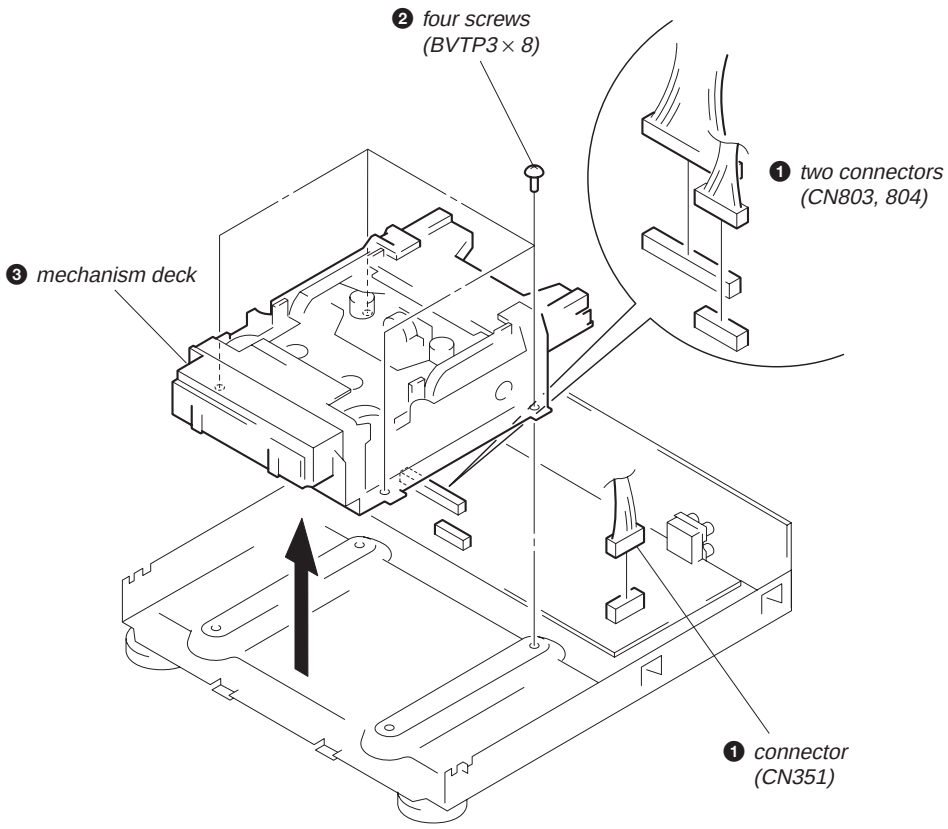



**Note:** Follow the disassembly procedure in the numerical order given.

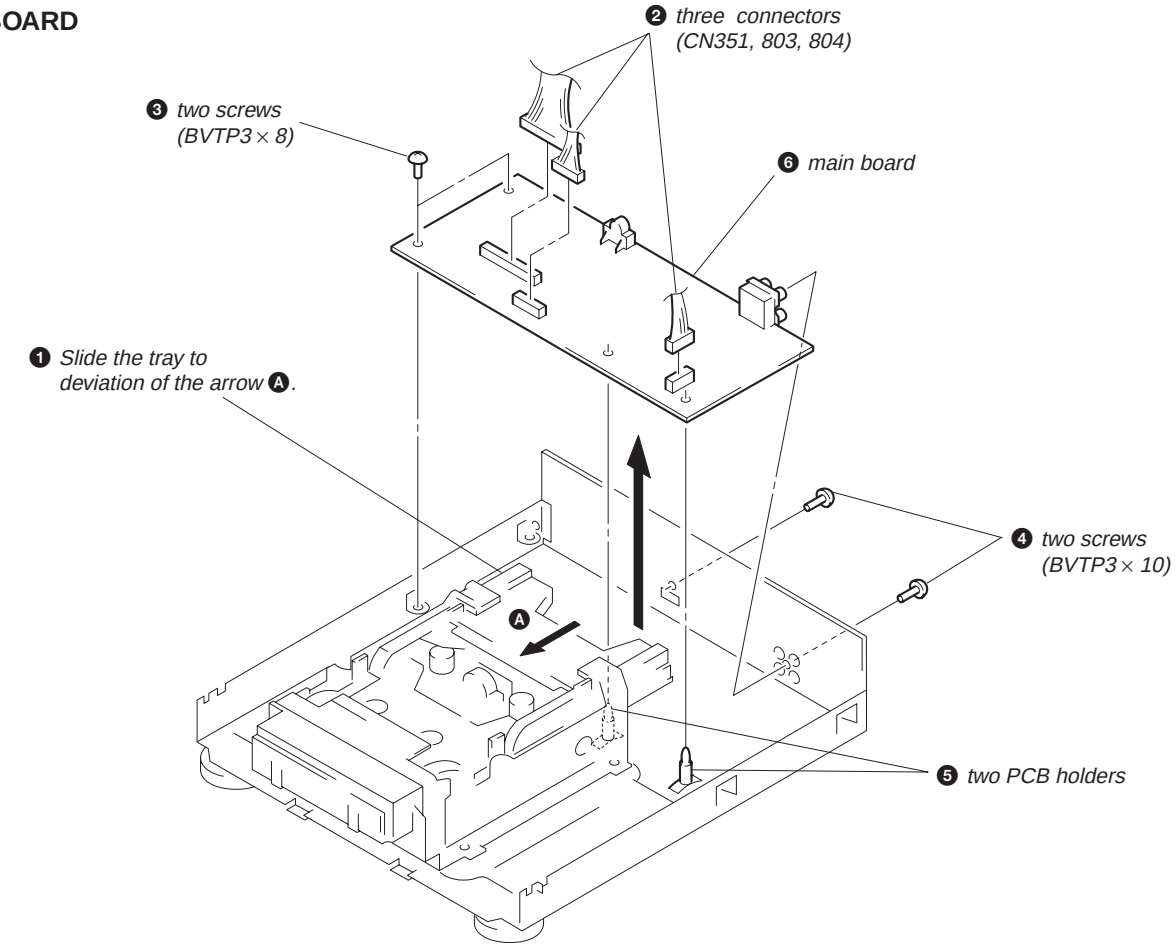
## CASE, FRONT PANEL



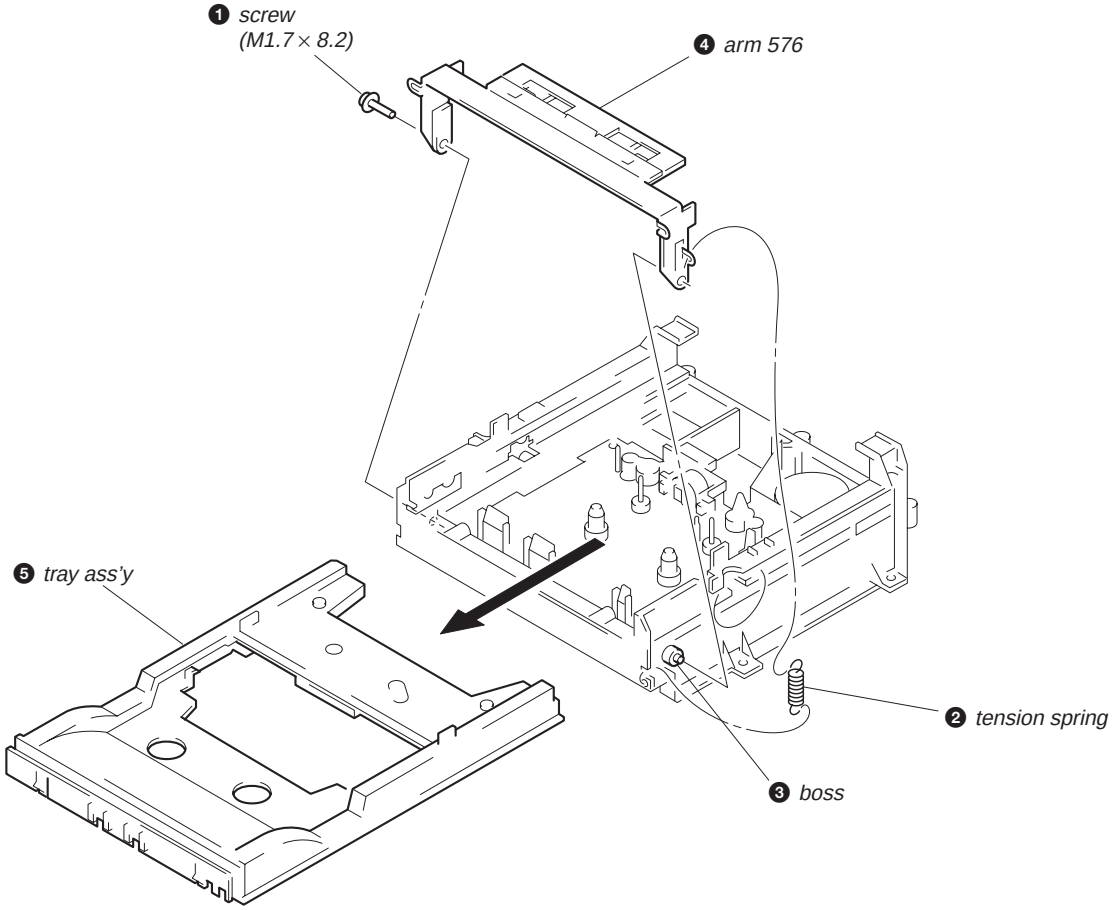
## MECHANISM DECK



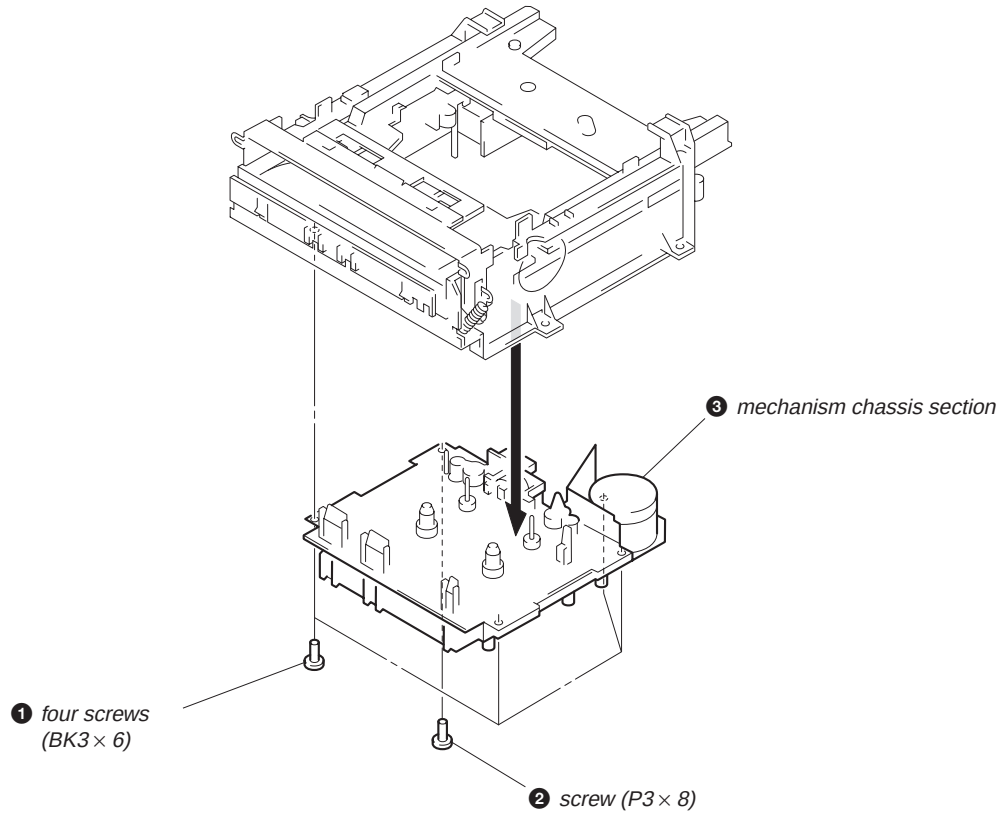

## MAIN BOARD



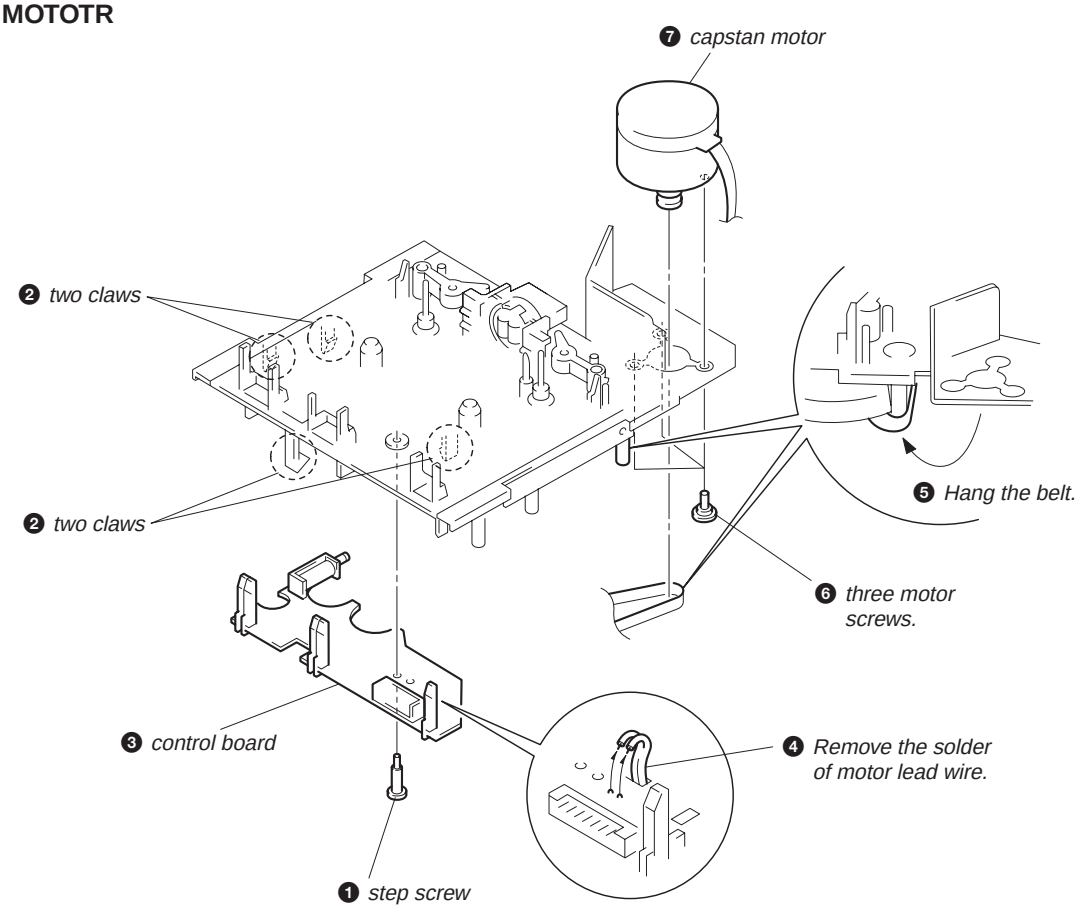
**TRAY ASS'Y**




**MECHANISM CHASSIS SECTION**



**CAPSTAN MOTOTR**



# SECTION 3
# MECHANICAL ADJUSTMENTS

**PRECAUTION**

1. Clean the following parts with a denatured-alcohol-moistened swab:
   record/playback/earth head  pinch roller
   rubber belts  capstan
   idlers
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

**Torque Measurement**

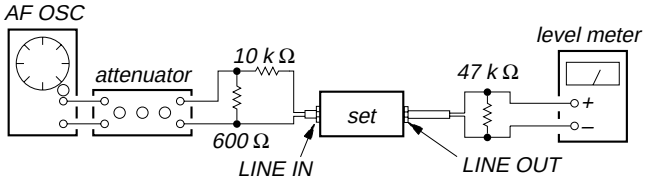
| Mode | Torque Meter | Meter Reading |
|---|---|---|
| FWD | CQ-102C | 30-65 g•cm (0.42-0.90 oz•inch) |
| FWD Back tension | | 1.5-6 g•cm (0.021-0.083 oz•inch) |
| REV | CQ-102RC | 30-65 g•cm (0.42-0.90 oz•inch) |
| REV Back tension | | 1.5-6 g•cm (0.021-0.083 oz•inch) |
| FF, REW | CQ-201B | 70-130 g•cm (0.98-1.80 oz•inch) |

# SECTION 4
# ELECTRICAL ADJUSTMENTS

**PRECAUTION**

1. The adjustment should be performed in the publication. (Be sure to male playback adjustment at first.)
2. The adjustments and measurement should be performed for both L-CH and R-CH.
   - Switch position
     DOLBY NR switch : OFF
     DIRECTION switch : ⇄
   - Standard record position
     Deliver the standard input signal level to input jack and set the REC LEVEL (RV301) control to obtain the standard output signal level as follows.

**– Record Mode –**




**Standard Input Level**

| Input terminal | LINE IN |
|---|---|
| source impedance | 10 kΩ |
| input signal level | 0.5 V (– 3.8 dB) |

**Standard Output Level**

| Output terminal | LINE OUT (L-CH) |
|---|---|
| load impedance | 47 kΩ |
| output signal level | 0.5 V (– 3.8 dB) |

**Test Tape**

| Type | Signal | Used for |
|---|---|---|
| P-4-A100 | 10 kHz, – 10 dB | Azimuth Adjustment |
| P-4-L300 | 315 Hz, 0 dB | PB Level Adjustment |
| WS-48B | 3 kHz, 0 dB | Tape Speed Adjustment |

**0 dB = 0.775 V**

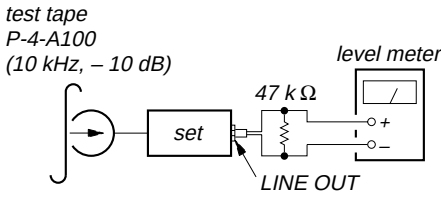
**Test Mode**

With the POWER turned OFF, short the test point CN801 (2P) on the MAIN board (making IC801 pin ⑭ "L") and turn the POWER ON. Thus, the TEST mode will be activated.
If a recording is done in the TEST mode, the REC MEMORY mode becomes active where the tape is rewound by the amount of recording when a rewinding is executed after recording.
After adjustment, make the CN801 (2P) open to release the TEST mode.

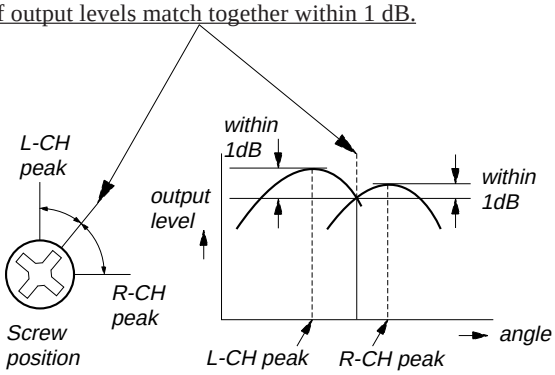
### Record/Playback Head Azimuth Adjustment

**Procedure:**

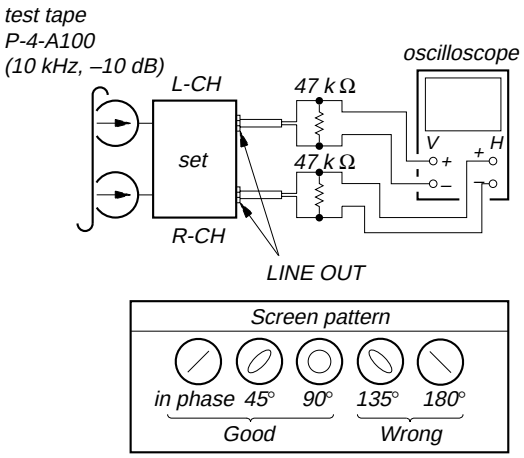
1. Mode: REV playback




2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1 dB.




3. Phase Check
   Mode: REV playback

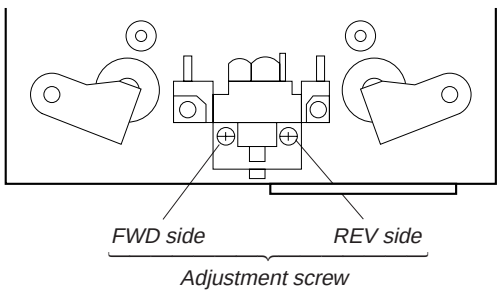






4. Set in the FWD mode and repeat the step 1 to 3.
5. After the adjustment, lock the screw with locking compound.

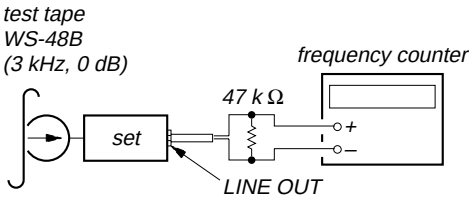
**Adjustment Location:** Record/Playback head




### Tape Speed Adjustment

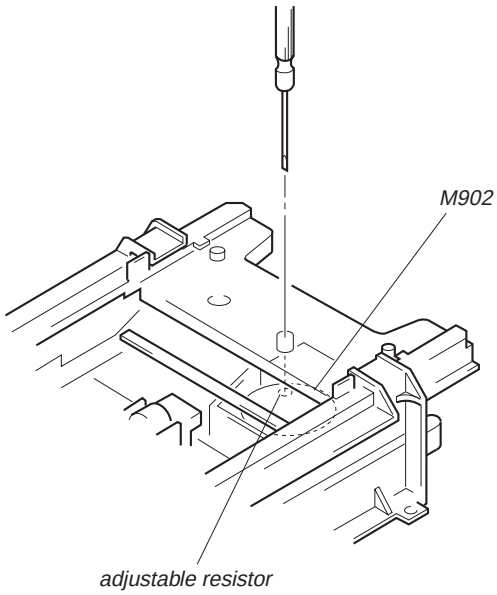
**Procedure:**

Mode: FWD playback




1. Set to FWD playback mode.
2. Adjust Variable resistor on the motor (M902) so that the frequency counter reading becomes
   3,000 ± 90 Hz.
3. Confirm that the deviation between tape top and tape end is within 3%.

**Adjustment Location:** CAPSTAN/REEL motor (M902)

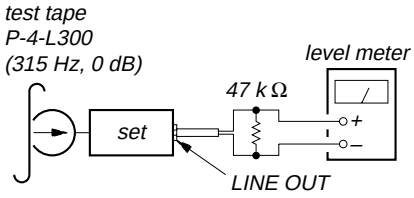



**Sample Value of Wow and flutter: 0.3% or less W. RMS (WS-48B)**

### Playback Level Adjustment

**Procedure:**

Mode: FWD playback




Adjust RV151 (L-CH) and RV251 (R-CH) so that the reading on level meter meets the adjustment limits below.

**Adjustment Limits:**

LINE OUT level: – 7.7 ± 0.5 dB (0.301 to 0.338 V)

Level difference between channels: within 2 dB

Check that the LINE OUT level does not change even if Playback and Stop operation is repeated several times.

**Adjustment Location:** MAIN board (See page 13)

### Record BIAS Adjustment

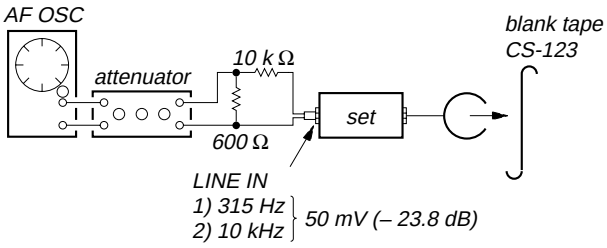
**Setting:**

REC LEVEL control: Standard record position (See page 10)

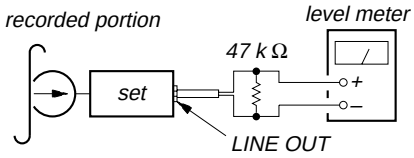
Set to the TEST mode (REC MEMRY mode) (See page 10)

**Procedure:**

1. Mode: Record




2. Mode: Playback




3. Confirm playback the signal recorded in step 1 become adjustment level as follows.
4. If these levels do not adjustment level, adjust the RV152 (L-CH) and RV252 (R-CH) to repeat step 1 and 2.

**Adjustment Level:** Playback output of 10 kHz to playback output of 315 Hz: ± 0.5 dB.

**Adjustment Location:** MAIN board (See page 13)

### Record Level Adjustment

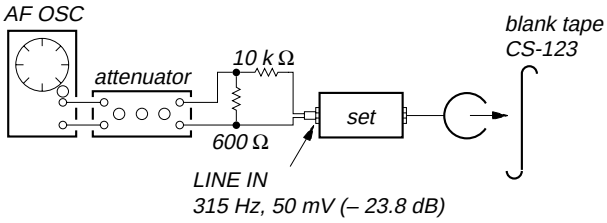
**Setting:**

REC LEVEL control: Standard record position (See page 10)

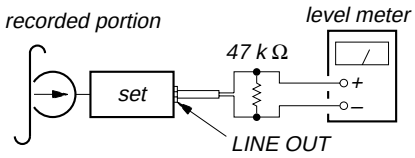
set to the TEST mode (REC MEMRY mode) (See page 10)

**Procedure:**

1. Mode :Record




2. Mode: Playback

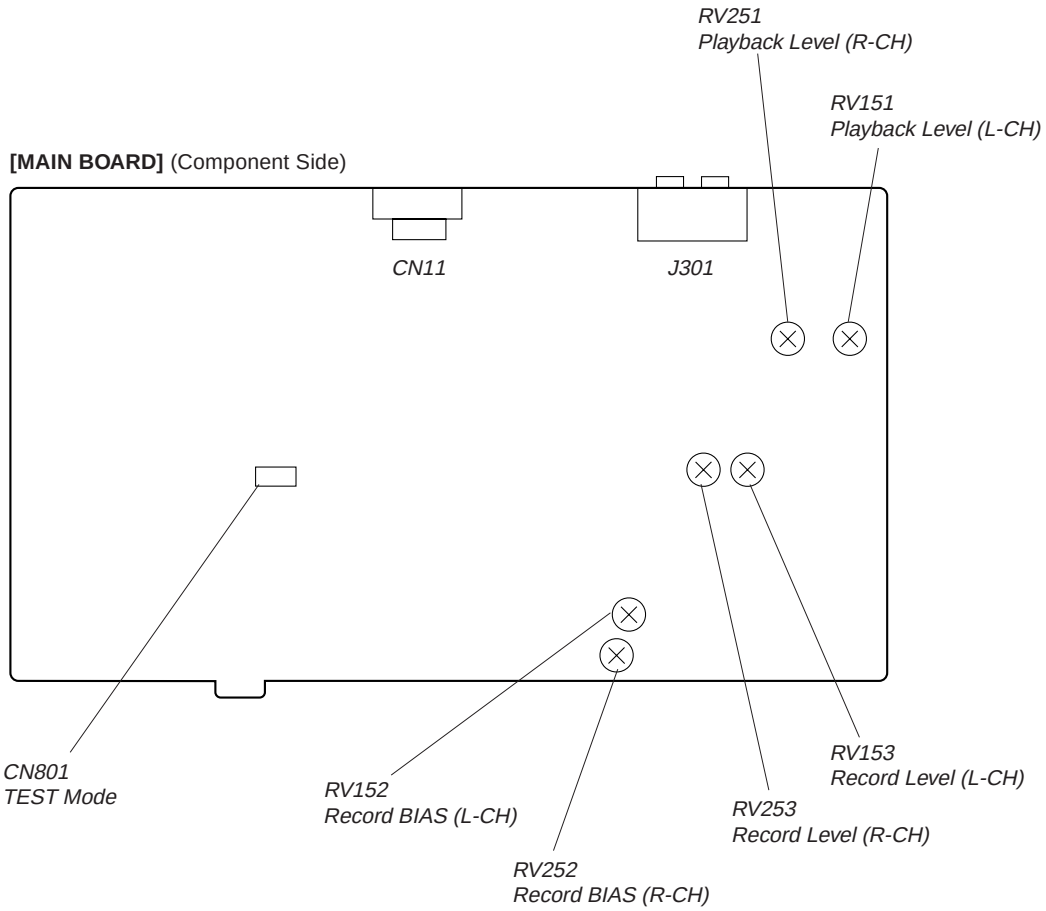



3. Confirm playback the signal recorded in step 1 become adjustment level as follows.
4. If these levels do not adjustment level, adjust RV153 (L-CH) and RV253 (R-CH) to repeat step 1 and 2.

**Adjustment Level:** – 23.8 ± 0.5 dB (47 to 53 mV)

**Adjustment Location:** MAIN board (See page 13)

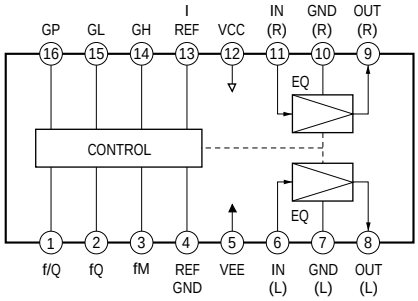
• **Adjustment Parts Location**



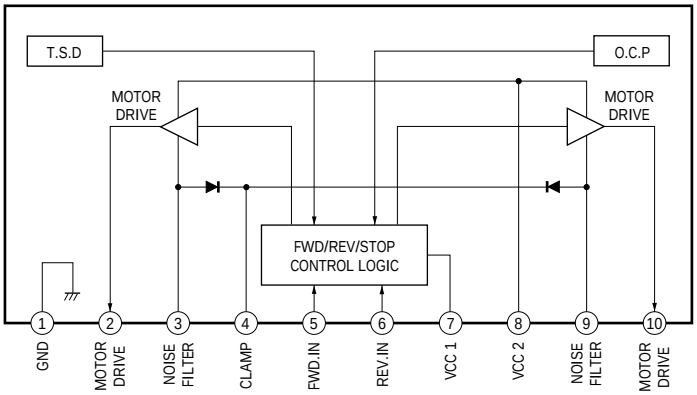
# SECTION 5
# DIAGRAMS

- **IC Block Diagrams**

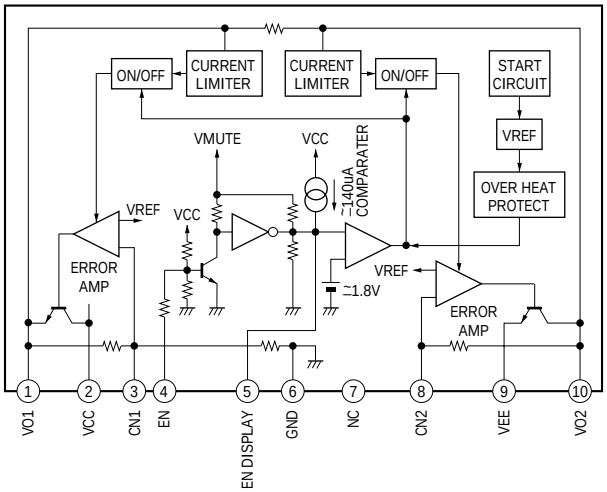
**IC304 CXA1198AP**




**IC804 LB1641**




**IC805 LA5617**



## 5-1. PRINTED WIRING BOARDS

• Semiconductor Location

| Ref. No. | Location | Ref. No. | Location |
|---|---|---|---|
| D101 | C-6 | IC302 | C-6 |
| D102 | C-6 | IC303 | E-4 |
| D201 | D-6 | IC304 | F-5 |
| D202 | D-6 | IC305 | D-2 |
| D301 | E-6 | IC306 | B-2 |
| D302 | E-6 | IC703 | C-9 |
| D303 | E-4 | IC801 | E-10 |
| D351 | E-1 | IC802 | E-9 |
| D352 | E-5 | IC804 | F-6 |
| D353 | E-5 | IC805 | C-8 |
| D354 | E-5 | | |
| D355 | B-7 | Q101 | C-6 |
| D356 | B-7 | Q102 | C-5 |
| D702 | B-9 | Q103 | C-3 |
| D704 | B-9 | Q104 | C-3 |
| D705 | B-9 | Q151 | E-2 |
| D706 | B-9 | Q201 | D-6 |
| D715 | D-10 | Q202 | D-5 |
| D716 | B-8 | Q203 | D-3 |
| D717 | B-9 | Q204 | D-3 |
| D718 | B-8 | Q251 | E-3 |
| D719 | B-8 | Q301 | E-4 |
| D801 | D-9 | Q310 | D-10 |
| D802 | D-9 | Q351 | E-1 |
| D803 | B-5 | Q352 | F-2 |
| D804 | E-7 | Q353 | G-2 |
| D805 | C-10 | Q354 | F-3 |
| D806 | F-8 | Q355 | G-3 |
| D807 | F-9 | Q356 | F-2 |
| D808 | F-6 | Q357 | F-1 |
| D809 | F-8 | Q358 | E-5 |
| D810 | F-7 | Q359 | E-5 |
| D811 | C-9 | Q360 | E-5 |
| D812 | C-10 | Q801 | B-5 |
| D813 | C-10 | Q803 | E-7 |
| D814 | E-7 | Q806 | E-6 |
| D815 | F-7 | Q809 | F-8 |
| D816 | E-7 | Q810 | D-10 |
| D817 | F-7 | Q811 | E-7 |
| D818 | G-7 | Q812 | F-7 |
| D820 | C-10 | Q813 | F-8 |
| D851 | C-20 | Q814 | E-6 |
| | | Q815 | E-6 |
| IC301 | C-4 | | |

【MAIN BOARD】

【PANEL BOARD】

【MOTOR BOARD】

【HEAD BOARD】

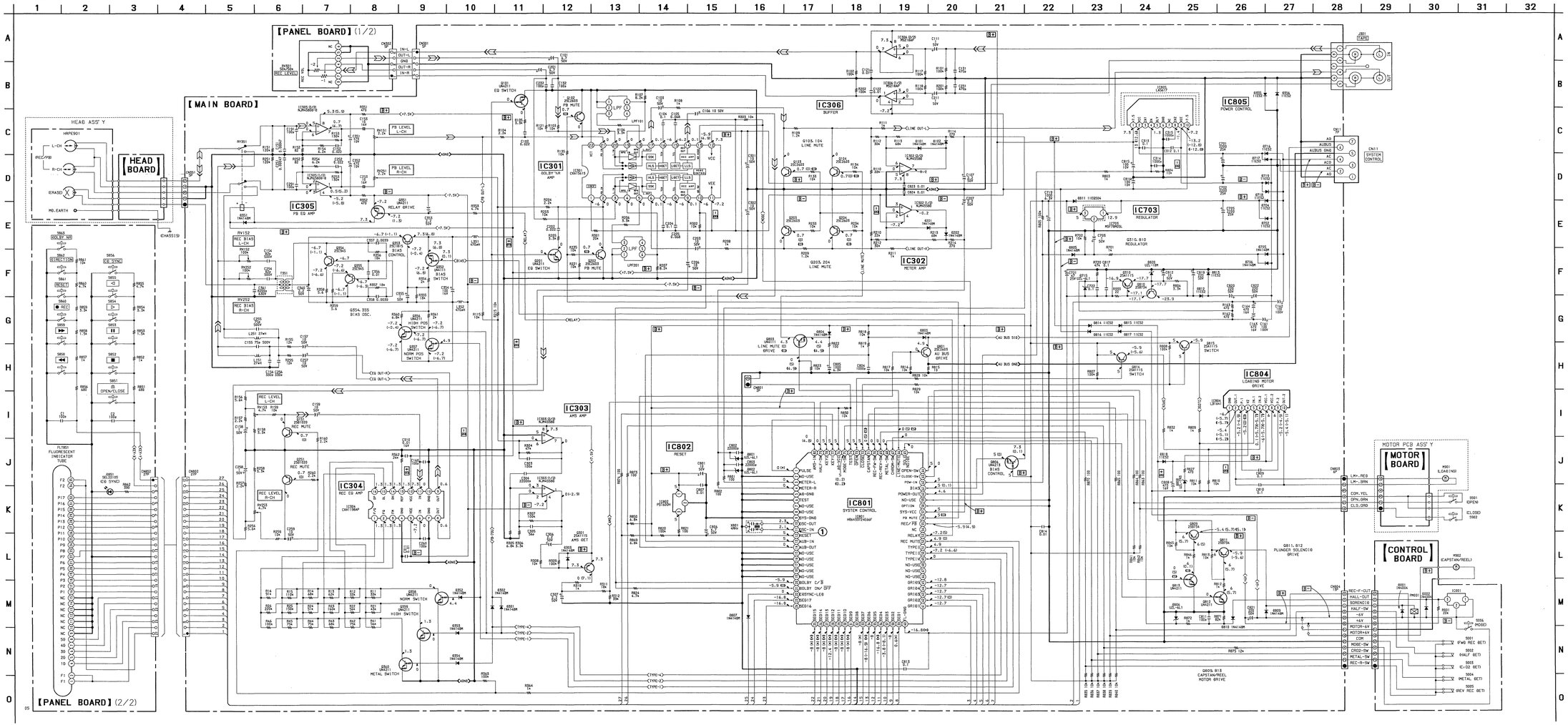
【CONTROL BOARD】

**Note on Printed Wiring Board:**

- ——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ⊡ : indicates side identified with part number.
- △ : internal component.

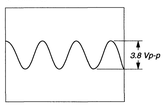
## 5-2. SCHEMATIC DIAGRAM

• See page 14 for IC Block Diagrams




**•Waveform**

❶ IC801 ⑰




**Note on Schematic Diagram:**

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantaiums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- △ : internal component.
- : panel designation.
- B+ : B+ Line.
- B- : B- Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : POWER ON (STOP)
  ( ) : REC
  << >> : PB
  ∗ : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : PB
  : REC

## 5-3. IC PIN FUNCTION DESCRIPTION

**• MAIN BOARD IC801 HD6433724E66F (SYSTEM CONTROL)**

| Pin No. | Pin Name | I/O | Function |
|---|---|---|---|
| 1 | PULSE | I | Pulse signal input |
| 2 | NO-USE | – | Not used (Fixed at “L”) |
| 3 | METER-L | I | Digital peak level meter signal input (L-ch) |
| 4 | METER-R | I | Digital peak level meter signal input (R-ch) |
| 5 | AD-GND | – | Ground for A/D converter |
| 6 | TEST | I | Not used (Fixed at “L”) |
| 7 | NO-USE | – | Not-used (Open) |
| 8 | NO-USE | – | Not-used (Fixed at “L”) |
| 9 | SYS-GND | – | Ground for system |
| 10 | OSC-OUT | O | System clock output (4 MHz) |
| 11 | OSC-IN | I | System clock input (4 MHz) |
| 12 | RESET | I | Reset signal input |
| 13 | AUB-IN | I | Audio bus input |
| 14 | AUB-OUT | O | Audio bus output |
| 15 | NO-USE | – | Not used (Fixed at “L”) |
| 16 | NO-USE | – | Not used (Fixed at “L”) |
| 17 | NO-USE | – | Not used (Fixed at “L”) |
| 18 | NO-USE | – | Not used (Fixed at “L”) |
| 19 | NO-USE | – | Not used (Fixed at “L”) |
| 20 | DOLBY C/$\overline{B}$ | O | DOLBY B/C select signal output “L”: DOLBY B, “H”: DOLBY C |
| 21 | DOLBY ON/$\overline{OFF}$ | O | DOLBY on/off select signal output “L”: DOLBY off, “H”: DOLBY on |
| 22 | CDSYNC-LED | O | Control output to CD SYNC LED (D851) |
| 23 | SEG17 | O | Segment signal output to fluorescent indicator tube (FLT851) |
| 24 | SEG16 | O | Segment signal output to fluorescent indicator tube (FLT851) |
| 25 | SEG15 | O | Segment signal output to fluorescent indicator tube (FLT851) |
| 26 | SEG14 | O | Segment signal output to fluorescent indicator tube (FLT851) |
| 27 | SEG13 | O | Segment signal output to fluorescent indicator tube (FLT851) |
| 28 | SEG12 | O | Segment signal output to fluorescent indicator tube (FLT851) |
| 29 | SEG11 | O | Segment signal output to fluorescent indicator tube (FLT851) |
| 30 | SEG10 | O | Segment signal output to fluorescent indicator tube (FLT851) |
| 31 | SEG9 | O | Segment signal output to fluorescent indicator tube (FLT851) |
| 32 | SEG8 | O | Segment signal output to fluorescent indicator tube (FLT851) |
| 33 | SEG7 | O | Segment signal output to fluorescent indicator tube (FLT851) |
| 34 | SEG6 | O | Segment signal output to fluorescent indicator tube (FLT851) |
| 35 | SEG5 | O | Segment signal output to fluorescent indicator tube (FLT851) |
| 36 | SEG4 | O | Segment signal output to fluorescent indicator tube (FLT851) |
| 37 | SEG3 | O | Segment signal output to fluorescent indicator tube (FLT851) |
| 38 | SEG2 | O | Segment signal output to fluorescent indicator tube (FLT851) |
| 39 | SEG1 | O | Segment signal output to fluorescent indicator tube (FLT851) |
| 40 | FL-GND | I | Ground for fluorescent indicator tube (Fixed at “L” (–20 V)) |
| 41 | GRID 1 | O | Grid signal output to fluorescent indicator tube (FLT851) |
| 42 | GRID 2 | O | Grid signal output to fluorescent indicator tube (FLT851) |
| 43 | GRID 3 | O | Grid signal output to fluorescent indicator tube (FLT851) |
| 44 | GRID 4 | O | Grid signal output to fluorescent indicator tube (FLT851) |
| 45 | GRID 5 | O | Grid signal output to fluorescent indicator tube (FLT851) |

| Pin No. | Pin Name | I/O | Function |
|---|---|---|---|
| 46 | NO-USE | – | Not used (Open) |
| 47 | NO-USE | – | Not used (Open) |
| 48 | NO-USE | – | Not used (Open) |
| 49 | TYPE IV | O | Tape type output "H": Metal Position |
| 50 | TYPE II | O | Tape type output "H": High position |
| 51 | TYPE I | O | Tape type output "H": Normal position |
| 52 | REC MUTE | O | Recording mute on/off control output "H": Mute on |
| 53 | RELAY | O | Relay drive output "H": On |
| 54 | NC | – | Not used (Open) |
| 55 | REC/$\overline{PB}$ | O | Mode control output to DOLBY NR amplifier (IC301) "L": Record |
| 56 | PB MUTE | O | Playback mute on/off control output "H": Mute on |
| 57 | SYS-VCC | I | Power supply for system |
| 58 | OPTION | O | Not used (Fixed at "L") |
| 59 | NO-USE | – | Not used (Fixed at "L") |
| 60 | POWER-OUT | O | Audio and mechanism power on/off output "H": On |
| 61 | BIAS | O | Control output to recording bias switch (Q352) "L": On |
| 62 | POW-IN | I | Primary power on/off input "H": On |
| 63 | CLOSE SW | I | Close detection input from S901 "L": Close |
| 64 | OPEN-SW | I | Open detection input from S902 "L": Open |
| 65 | SOLENOIDE | O | Plunger (PMxxx) drive output "H": On |
| 66 | $\overline{\text{LINE-MUTE}}$ | O | Line mute on/off control output "L": Mute on |
| 67 | CHORM-SW | I | Tape type detection input from Sxxx "L": Type I |
| 68 | METAL-SW | I | Tape type detection input from Sxxx "L": Type IV |
| 69 | REC-REV-SW | I | Record proof detection input from Sxxx (REV side) "H": Not nail |
| 70 | REC-FW-SW | I | Record proof detection input from Sxxx (FWD side) "H": Not nail |
| 71 | CAPSTAN | O | Capstan/reel motor (M902) drive output "H": On |
| 72 | $\overline{\text{CLOSE}}$ | O | Loading motor (M901) drive output *1 |
| 73 | $\overline{\text{OPEN}}$ | O | Loading motor (M901) drive output *1 |
| 74 | TEST | I | Test mode terminal |
| 75 | MODE-SW | I | Head sensor input from Sxxx |
| 76 | AD-VCC | I | Power supply for A/D converter |
| 77 | KEY 1 | I | Key input (A/D convert input)*2 |
| 78 | KEY 2 | I | Key input (A/D convert input)*2 |
| 79 | HALF-SW | I | Cassette half detection input from Sxxx |
| 80 | AMS-IN | I | AMS input |

***1 Loading Motor (M901)**

| | IN | OUT | BRAKE |
|---|---|---|---|
| CLOSE ⑫ | H | L | H |
| OPEN ⑬ | L | H | H |

***2 Key Input**

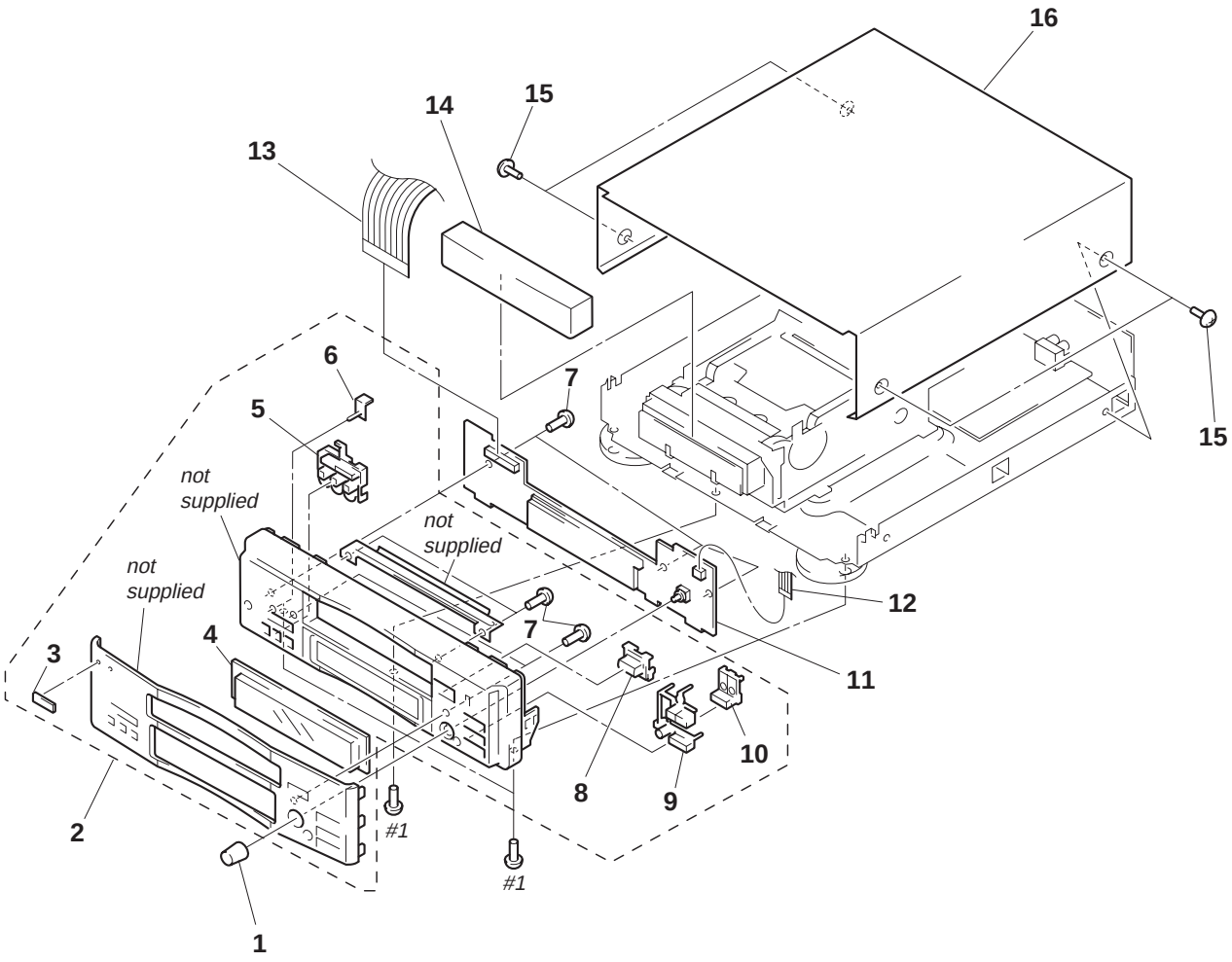
| Voltage / Input port | 0 V | 0.45 V | 1.19 V | 2.19 V | 3.2 V | 3.98 V | 4.48 V | 5.0 V |
|---|---|---|---|---|---|---|---|---|
| Pin ⑱, KEY 2 | Open/Close ⏏ | STOP ■ | PAUSE ❚❚ | FWD ▷ | REV ◁ | CD SYNC | — | Not key input |
| Pin ⑰, KEY 1 | POWER ON/OFF | REW ◀◀ | FF ▶▶ | REC ● | RESET | DIRECTION | DOLBY NR | Not key input |

# SECTION 6
# EXPLODED VIEWS

NOTE:

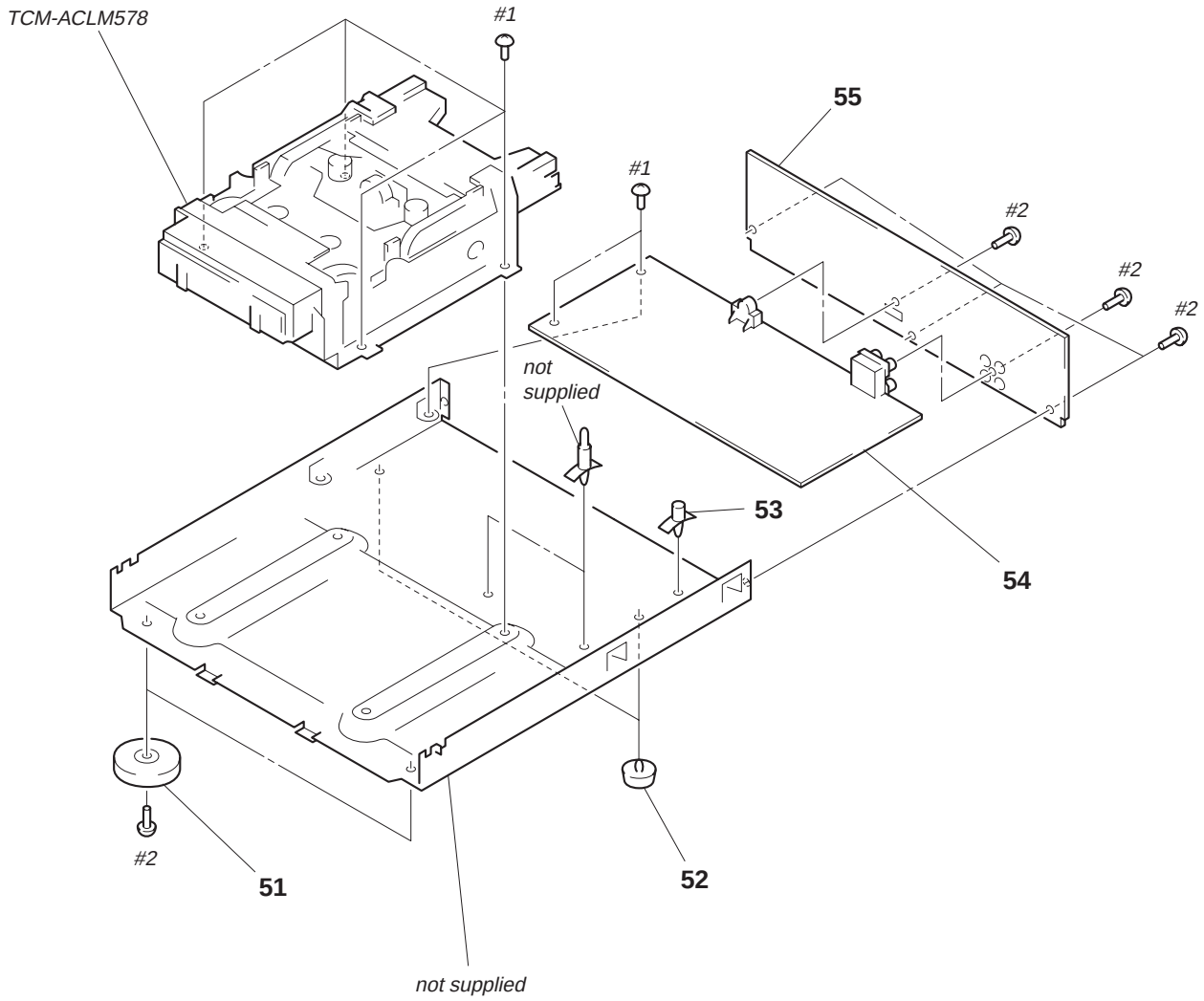
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of the electrical parts list.

## (1) CASE, FRONT PANEL SECTION



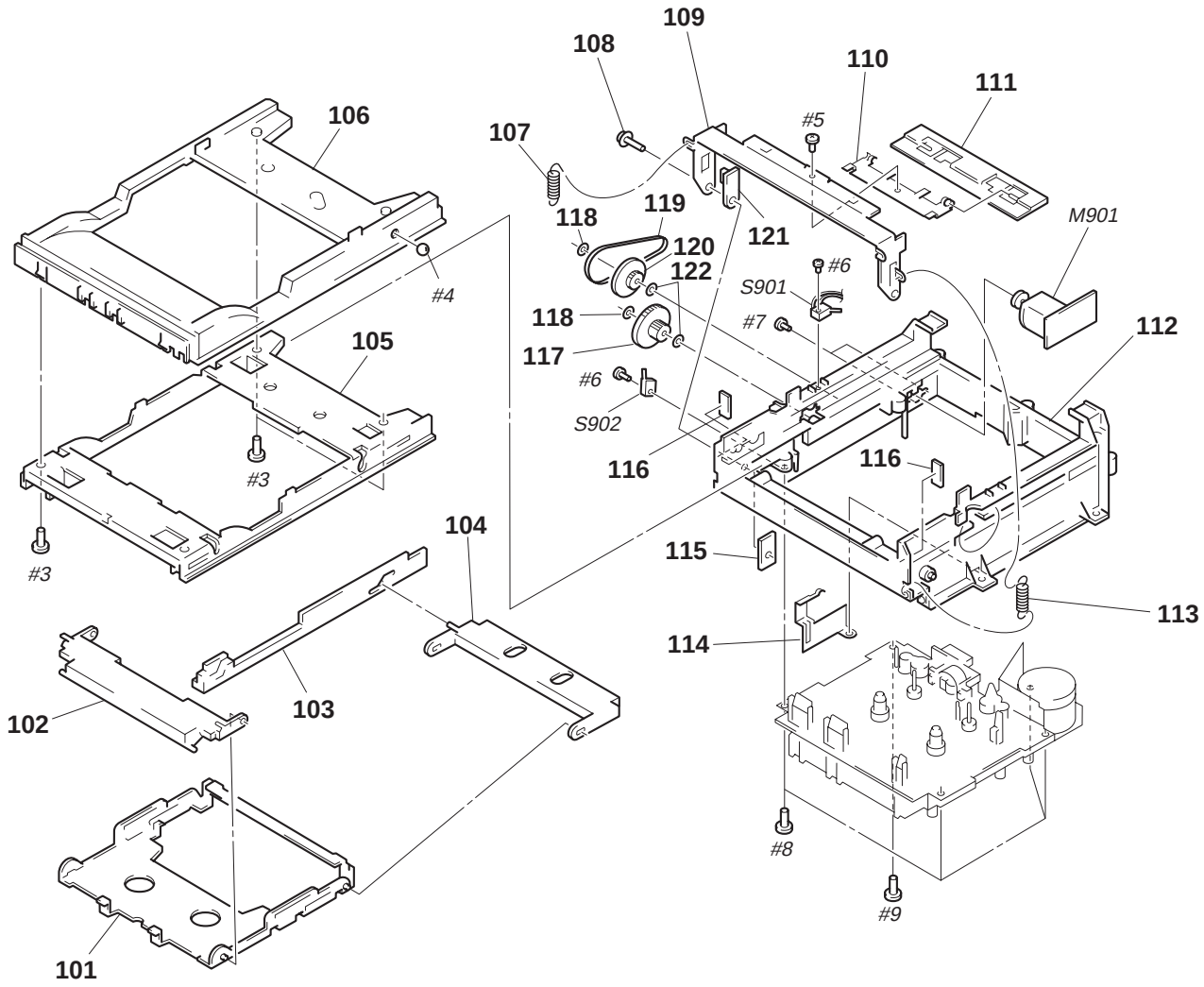

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 1 | 4-985-926-01 | KNOB | |
| 2 | X-3373-604-1 | PANEL ASSY, FRONT | |
| 3 | 4-962-708-01 | EMBLEM (4-A), SONY | |
| 4 | 3-939-648-01 | WINDOW (TC) | |
| 5 | 3-939-646-01 | BUTTON (REC) (CD SYNC, ● REC) | |
| 6 | 3-939-647-01 | INDICATOR (TC) | |
| 7 | 4-951-620-01 | SCREW (2.6X8), +BVTP | |
| 8 | 3-012-560-01 | BUTTON (EJECT) (⏏ OPEN/CLOSE) | |
| 9 | 3-939-642-01 | BUTTON (PLAY) (◁, ▷, ■) | |
| 10 | 3-939-643-01 | BUTTON (FF) (◀◀, ▶▶) | |
| * 11 | A-2007-722-A | PANEL BOARD, COMPLETE | |
| 12 | 1-782-490-11 | WIRE (FLAT TYPE) (5 CORE) | |
| 13 | 1-773-257-11 | WIRE (FLAT TYPE) (27 CORE) | |
| 14 | 3-012-561-01 | LID (R-TC) | |
| 15 | 3-363-099-01 | SCREW (CASE 3 TP2) | |
| * 16 | 3-939-652-11 | CASE | |

## (2) CHASSIS SECTION



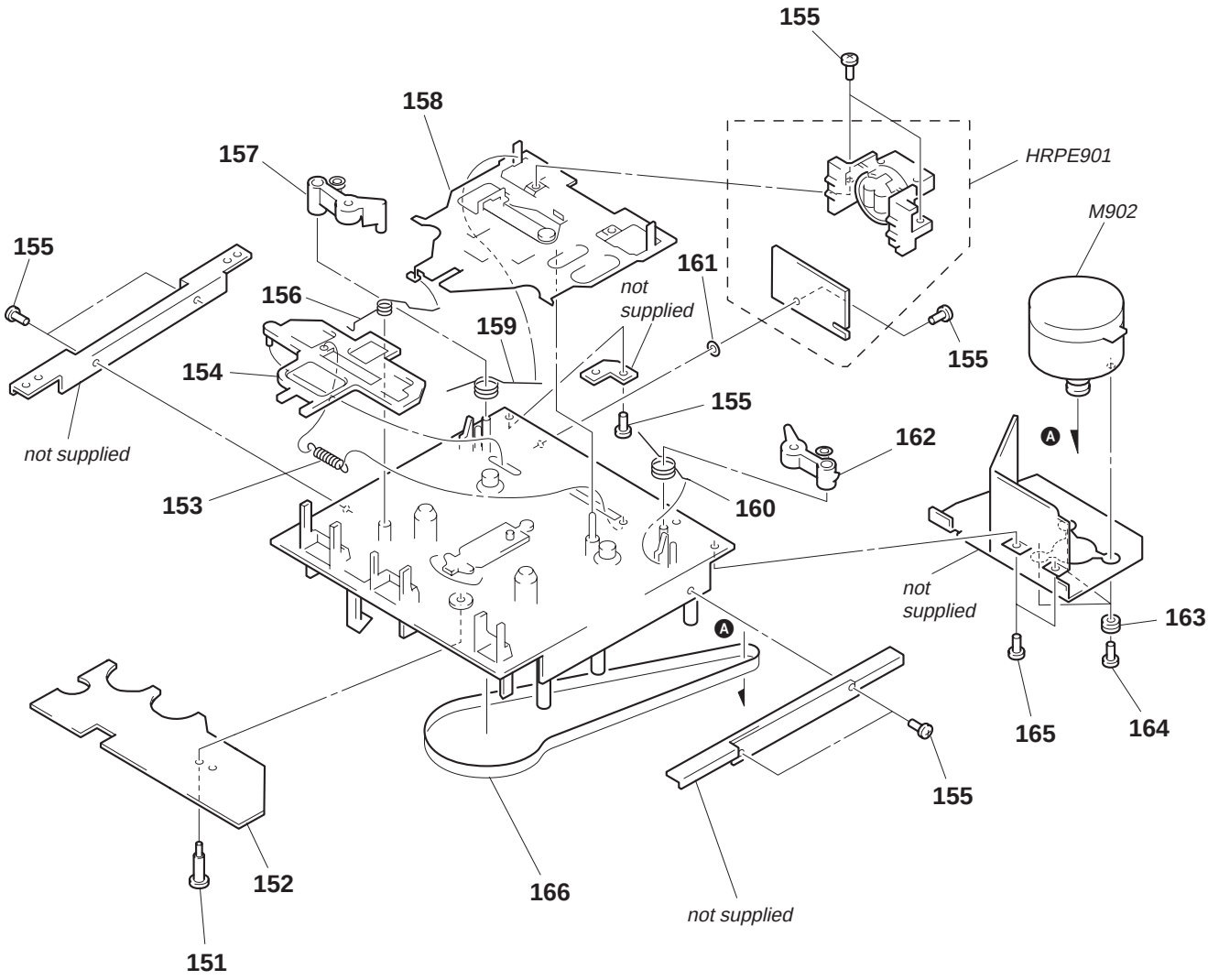

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 51 | 4-977-699-11 | LEG (F) | |
| 52 | 4-965-822-01 | FOOT | |
| * 53 | 3-350-847-31 | HOLDER, PCB | |
| * 54 | A-2007-721-A | MAIN BOARD, COMPLETE | |
| * 55 | 3-012-563-02 | PANEL, BACK | |

## (3) MECHANISM DECK SECTION-1 (TCM-ACLM578)



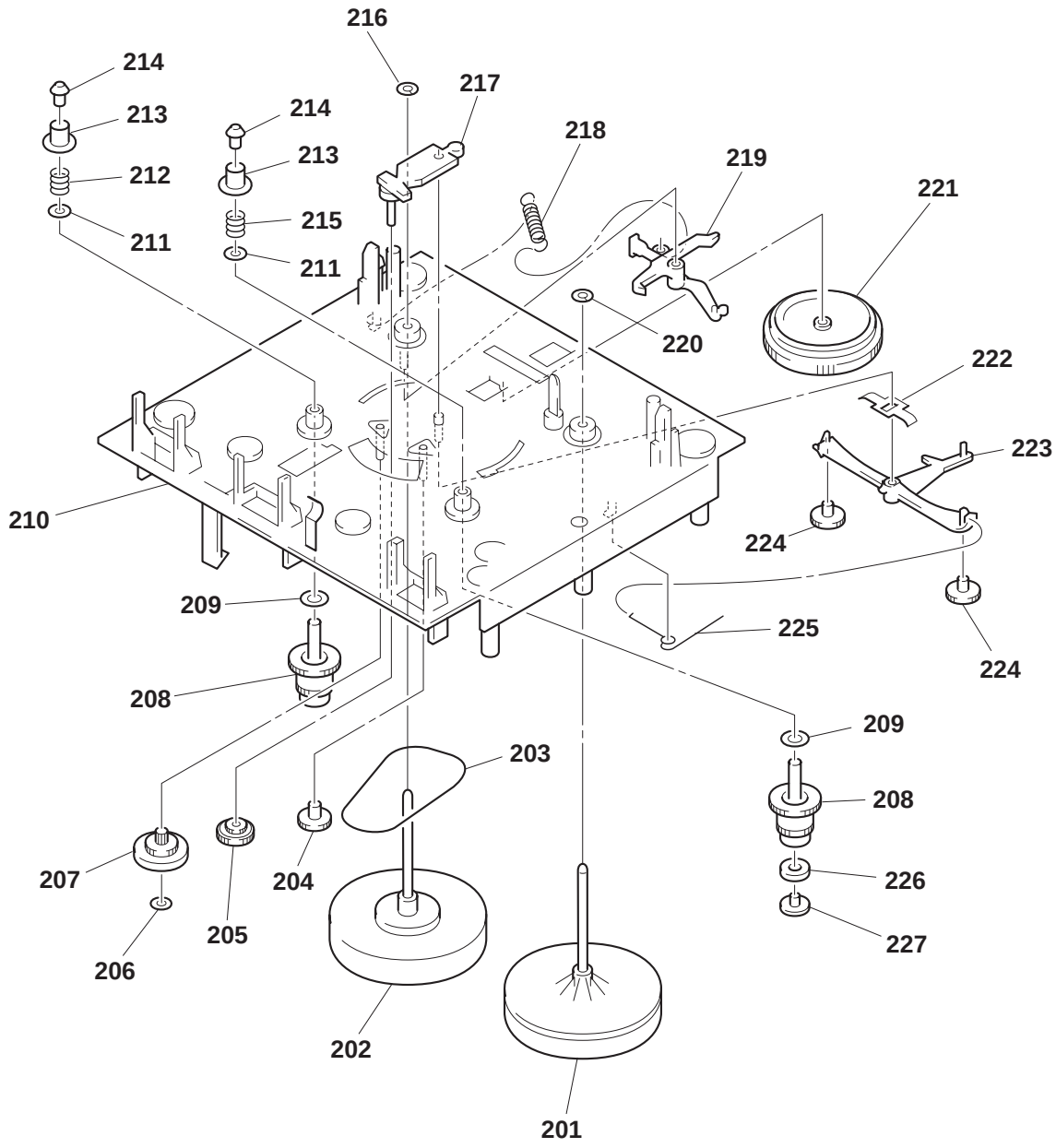

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 101 | 3-017-214-01 | HOLDER | |
| 102 | 3-017-215-01 | ARM (A) | |
| 103 | 3-017-233-01 | RACK, GEAR | |
| 104 | 3-017-216-01 | ARM (C) | |
| 105 | 3-017-213-01 | CHASSIS | |
| 106 | 3-017-212-01 | TRAY | |
| 107 | 3-017-235-01 | SPRING (A) | |
| 108 | 3-017-244-01 | SCREW (1.7X8.2), SPECIAL | |
| 109 | 3-017-217-01 | ARM (576) | |
| 110 | 3-017-218-01 | RETAINER | |
| 111 | 3-017-219-01 | PLATE | |
| 112 | 3-017-211-01 | FRAME | |
| 113 | 3-017-236-01 | SPRING (B) | |
| 114 | 3-017-234-01 | GROUND, PLATE | |
| 115 | 3-017-243-01 | NUT | |
| 116 | 3-017-242-01 | BUFFER | |
| 117 | 3-017-232-01 | GEAR (B) | |
| 118 | 3-017-241-01 | WASHER (1.6X4X0.5) | |
| 119 | 3-017-237-01 | BELT (49.2) | |
| 120 | 3-017-231-01 | PULLEY (C) | |
| 121 | 3-017-220-01 | ARM | |
| 122 | 3-017-240-01 | WASHER (2.1X4X0.5) | |
| M901 | 3-017-239-01 | PULLEY (MOTOR) (LOADING) | |
| S901 | 3-017-238-01 | LIMITTER (SW MSS-8B) (OPEN) | |
| S902 | 3-017-238-01 | LIMITTER (SW MSS-8B) (CLOSE) | |

## (4) MECHANISM DECK SECTION-2 (TCM-ACLM578)




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 151 | 3-017-294-01 | SCREW (S), SPECIAL | |
| * 152 | | CONTROL BOARD | |
| 153 | 3-017-273-01 | LEVER AC, SPRING | |
| 154 | 3-017-270-01 | AC, LEVER | |
| 155 | 3-017-279-01 | SCREW (M2), SPECIAL | |
| 156 | 3-017-274-01 | HEAD, SPRING BASE | |
| 157 | 3-017-254-01 | PINCH ROLLER (F) | |
| 158 | 3-017-253-01 | CHASSIS (HEAD) | |
| 159 | 3-017-277-01 | PINCH (F), SPRING | |
| 160 | 3-017-278-01 | PINCH (R), SPRING | |
| 161 | 3-017-300-01 | WASHER, FLAT | |
| 162 | 3-017-255-01 | PINCH ROLLER (R) | |
| 163 | 3-017-296-01 | CUTION (MOTOR) | |
| 164 | 3-017-297-01 | SCREW (MOTOR) | |
| 165 | 3-017-280-01 | SCREW (M2 TAPPING), SPECIAL | |
| 166 | 3-017-285-01 | BELT (MAIN) | |
| HRPE901 | | HEAD ASSY (RECORD/PLAYBACK/ERASE) | |
| M902 | 3-017-259-01 | PULLEY (MOTOR) (CAPSTAN/REEL) | |

## (5) MECHANISM DECK SECTION-3 (TCM-ACLM578)




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 201 | 3-017-258-01 | FLYWHEEL (R) | |
| 202 | 3-017-257-01 | FLYWHEEL (F) | |
| 203 | 3-017-284-01 | BELT (SUB) | |
| 204 | 3-017-265-01 | IDLER, GEAR | |
| 205 | | GEAR P ASSY | |
| 206 | 3-017-283-01 | WASHER, FLAT | |
| 207 | | CLUTCH ASSY | |
| 208 | 3-017-263-01 | REEL, BASE | |
| 209 | 3-017-295-01 | WASHER, FLAT | |
| 210 | 3-017-252-01 | CHASSIS (OS) | |
| 211 | 3-017-298-01 | WASHER (B/T) | |
| 212 | 3-017-299-01 | SPRING (B/T) (F) | |
| 213 | 3-017-288-01 | REEL, CAP | |
| 214 | 3-017-262-01 | REEL, BUSHING | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 215 | 3-017-272-01 | SPRING (BT) (R) | |
| 216 | 3-017-281-01 | WASHER, FLAT | |
| 217 | 3-017-256-01 | ARM (PLAY) | |
| 218 | 3-017-275-01 | LOCK, SPRING CAM | |
| 219 | 3-017-267-01 | LOCK, ARM CAM | |
| 220 | 3-017-282-01 | WASHER, FLAT | |
| 221 | 3-017-264-01 | CAM, GEAR | |
| 222 | 3-017-266-01 | BASE, LEVER | |
| 223 | 3-017-268-01 | ARM (RF) | |
| 224 | 3-017-269-01 | GEAR (RF) | |
| 225 | 3-017-276-01 | ARM (RF), SPRING | |
| 226 | 3-017-293-01 | MAGNET, PLATE | |
| 227 | 3-017-271-01 | CAP (MG) | |

**CONTROL** **MAIN**

# SECTION 7
# ELECTRICAL PARTS LIST

**NOTE:**

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

When indicating parts by reference number, please include the board.

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| * | | CONTROL BOARD | | | | |
| | | ********** | | | | |
| | | < CONNECTOR > | | | | |
| CN | 3-017-287-01 | TERMINAL (RP) | | | | |
| | | < DIODE > | | | | |
| D | 8-719-987-63 | DIODE 1N418M | | | | |
| D | 8-719-987-63 | DIODE 1N418M | | | | |
| | | < IC > | | | | |
| IC | 3-017-289-01 | PLATE, ROTARY DETECTION | | | | |
| | | < PLUNGER SOLENOID > | | | | |
| PM | 3-017-292-01 | SOLENOID | | | | |
| | | < RESISTOR > | | | | |
| R | 1-247-682-11 | CARBBBON | | | | |
| | | < SWITCH > | | | | |
| S | 3-017-290-01 | SWITCH, DETECT (FWD REC DET) | | | | |
| S | 3-017-290-01 | SWITCH, DETECT (HALF DET) | | | | |
| S | 3-017-290-01 | SWITCH, DETECT (Cr02 DET) | | | | |
| S | 3-017-290-01 | SWITCH, DETECT (METAL DET) | | | | |
| S | 3-017-290-01 | SWITCH, DETECT (REV REC DET) | | | | |
| S | 3-017-291-01 | SWITCH, MODE (MODE) | | | | |
| ********** | | | | | | |
| * | A-2007-721-A | MAIN BOARD, COMPLETE | | | | |
| | | ********** | | | | |
| * | 3-309-144-21 | HEAT SINK | | | | |
| | 7-685-871-01 | SCREW +BVTT 3X6 (S) | | | | |
| | | < CAPACITOR > | | | | |
| C101 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V | |
| C102 | 1-137-372-11 | FILM | 0.022uF | 5% | 50V | |
| C103 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | |
| C104 | 1-136-165-00 | FILM | 0.1uF | 5% | 50V | |
| C105 | 1-136-163-00 | FILM | 0.068uF | 5% | 50V | |
| C106 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | |
| C107 | 1-126-961-11 | ELECT | 2.2uF | 20% | 50V | |
| C111 | 1-126-960-11 | ELECT | 1uF | 20% | 50V | |

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| C121 | 1-162-306-11 | CERAMIC | 0.01uF | 20% | 16V | |
| C122 | 1-162-306-11 | CERAMIC | 0.01uF | 20% | 16V | |
| C131 | 1-162-290-31 | CERAMIC | 470PF | 10% | 50V | |
| C132 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V | |
| C151 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V | |
| C152 | 1-137-372-11 | FILM | 0.022uF | 5% | 50V | |
| C153 | 1-107-714-11 | ELECT | 10uF | 20% | 16V | |
| C154 | 1-107-610-11 | CERAMIC | 82PF | 5% | 500V | |
| C155 | 1-107-609-11 | CERAMIC | 75PF | 5% | 500V | |
| C156 | 1-102-820-00 | CERAMIC | 330PF | 5% | 50V | |
| C157 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | |
| C158 | 1-126-960-11 | ELECT | 1uF | 20% | 50V | |
| C159 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | |
| C160 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V | |
| C161 | 1-128-563-11 | ELECT | 100uF | 20% | 100V | |
| C162 | 1-128-563-11 | ELECT | 100uF | 20% | 100V | |
| C163 | 1-126-935-11 | ELECT | 470uF | 20% | 16V | |
| C164 | 1-126-935-11 | ELECT | 470uF | 20% | 16V | |
| C191 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V | |
| C201 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V | |
| C202 | 1-137-372-11 | FILM | 0.022uF | 5% | 50V | |
| C203 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | |
| C204 | 1-136-165-00 | FILM | 0.1uF | 5% | 50V | |
| C205 | 1-136-163-00 | FILM | 0.068uF | 5% | 50V | |
| C206 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | |
| C207 | 1-126-961-11 | ELECT | 2.2uF | 20% | 50V | |
| C211 | 1-126-960-11 | ELECT | 1uF | 20% | 50V | |
| C231 | 1-162-290-31 | CERAMIC | 470PF | 10% | 50V | |
| C232 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V | |
| C251 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V | |
| C252 | 1-137-372-11 | FILM | 0.022uF | 5% | 50V | |
| C253 | 1-107-714-11 | ELECT | 10uF | 20% | 16V | |
| C254 | 1-107-610-11 | CERAMIC | 82PF | 5% | 500V | |
| C255 | 1-107-609-11 | CERAMIC | 75PF | 5% | 500V | |
| C256 | 1-102-820-00 | CERAMIC | 330PF | 5% | 50V | |
| C257 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | |
| C258 | 1-126-960-11 | ELECT | 1uF | 20% | 50V | |
| C259 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | |
| C260 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V | |
| C291 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V | |
| C301 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | |
| C302 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | |
| C303 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V | |
| C304 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C305 | 1-162-217-31 | CERAMIC | 56PF | 5% | 50V |
| C306 | 1-126-961-11 | ELECT | 2.2uF | 20% | 50V |
| C307 | 1-126-961-11 | ELECT | 2.2uF | 20% | 50V |
| C310 | 1-162-306-11 | CERAMIC | 0.01uF | 20% | 16V |
| C311 | 1-162-306-11 | CERAMIC | 0.01uF | 20% | 16V |
| C312 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C313 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C314 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C315 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C351 | 1-126-925-11 | ELECT | 470uF | 20% | 10V |
| C352 | 1-126-925-11 | ELECT | 470uF | 20% | 10V |
| C353 | 1-126-961-11 | ELECT | 2.2uF | 20% | 50V |
| C354 | 1-126-933-11 | ELECT | 100uF | 20% | 16V |
| C355 | 1-126-960-11 | ELECT | 1uF | 20% | 50V |
| C356 | 1-137-370-11 | FILM | 0.01uF | 5% | 50V |
| C357 | 1-137-436-11 | FILM | 0.0039uF | 5% | 50V |
| C358 | 1-137-436-11 | FILM | 0.0039uF | 5% | 50V |
| C360 | 1-126-961-11 | ELECT | 2.2uF | 20% | 50V |
| C361 | 1-136-562-11 | FILM | 0.0082uF | 5% | 630V |
| C701 | 1-126-943-11 | ELECT | 2200uF | 20% | 25V |
| C702 | 1-126-943-11 | ELECT | 2200uF | 20% | 25V |
| C703 | 1-126-960-11 | ELECT | 1uF | 20% | 50V |
| C705 | 1-126-943-11 | ELECT | 2200uF | 20% | 25V |
| C719 | 1-126-916-11 | ELECT | 1000uF | 20% | 6.3V |
| C721 | 1-104-664-11 | ELECT | 47uF | 20% | 25V |
| C722 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C801 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C802 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V |
| C803 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V |
| C804 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C805 | 1-126-916-11 | ELECT | 1000uF | 20% | 6.3V |
| C806 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C807 | 1-162-306-11 | CERAMIC | 0.01uF | 20% | 16V |
| C808 | 1-126-935-11 | ELECT | 470uF | 20% | 16V |
| C809 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C810 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C811 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C812 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C813 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C814 | 1-162-306-11 | CERAMIC | 0.01uF | 20% | 16V |
| C815 | 1-126-933-11 | ELECT | 100uF | 20% | 10V |
| C816 | 1-126-933-11 | ELECT | 100uF | 20% | 10V |
| C817 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C819 | 1-126-969-11 | ELECT | 220uF | 20% | 50V |
| C820 | 1-126-969-11 | ELECT | 220uF | 20% | 50V |
| C821 | 1-126-969-11 | ELECT | 220uF | 20% | 50V |
| C822 | 1-126-969-11 | ELECT | 220uF | 20% | 50V |
| C823 | 1-162-306-11 | CERAMIC | 0.01uF | 20% | 16V |
| C824 | 1-162-306-11 | CERAMIC | 0.01uF | 20% | 16V |
| | | < CONNECTOR > | | | |
| CN11 | 1-770-158-21 | HOUSING, CONNECTOR 7P | | | (SYSTEM CONTROL) |
| * CN301 | 1-568-824-11 | SOCKET, CONNECTOR 5P | | | |
| * CN351 | 1-564-707-11 | PIN, CONNECTOR (SMALL TYPE) 5P | | | |
| * CN801 | 1-564-704-11 | PIN, CONNECTOR (SMALL TYPE) 2P | | | |
| * CN802 | 1-568-842-11 | SOCKET, CONNECTOR 27P | | | |
| * CN803 | 1-564-708-11 | PIN, CONNECTOR (SMALL TYPE) 6P | | | |
| * CN804 | 1-564-715-11 | PIN, CONNECTOR (SMALL TYPE)13P | | | |
| | | < DIODE > | | | |
| D101 | 8-719-987-63 | DIODE 1N4148M | | | |
| D102 | 8-719-987-63 | DIODE 1N4148M | | | |
| D201 | 8-719-987-63 | DIODE 1N4148M | | | |
| D202 | 8-719-987-63 | DIODE 1N4148M | | | |
| D301 | 8-719-987-63 | DIODE 1N4148M | | | |
| D302 | 8-719-987-63 | DIODE 1N4148M | | | |
| D303 | 8-719-987-63 | DIODE 1N4148M | | | |
| D351 | 8-719-987-63 | DIODE 1N4148M | | | |
| D352 | 8-719-987-63 | DIODE 1N4148M | | | |
| D353 | 8-719-987-63 | DIODE 1N4148M | | | |
| D354 | 8-719-987-63 | DIODE 1N4148M | | | |
| D355 | 8-719-200-82 | DIODE 11ES2 | | | |
| D356 | 8-719-200-82 | DIODE 11ES2 | | | |
| D702 | 8-719-200-82 | DIODE 11ES2 | | | |
| D704 | 8-719-200-82 | DIODE 11ES2 | | | |
| D705 | 8-719-987-63 | DIODE 1N4148M | | | |
| D706 | 8-719-987-63 | DIODE 1N4148M | | | |
| D715 | 8-719-933-33 | DIODE HZS6A1L | | | |
| D716 | 8-719-200-82 | DIODE 11ES2 | | | |
| D717 | 8-719-200-82 | DIODE 11ES2 | | | |
| D718 | 8-719-200-82 | DIODE 11ES2 | | | |
| D719 | 8-719-200-82 | DIODE 11ES2 | | | |
| D801 | 8-719-933-33 | DIODE HZS6A1L | | | |
| D802 | 8-719-933-33 | DIODE HZS6A1L | | | |
| D803 | 8-719-987-63 | DIODE 1N4148M | | | |
| D804 | 8-719-987-63 | DIODE 1N4148M | | | |
| D805 | 8-719-987-63 | DIODE 1N4148M | | | |
| D806 | 8-719-933-33 | DIODE HZS6A1L | | | |
| D807 | 8-719-987-63 | DIODE 1N4148M | | | |
| D808 | 8-719-933-48 | DIODE HZS7B3L | | | |
| D809 | 8-719-987-63 | DIODE 1N4148M | | | |
| D810 | 8-719-987-63 | DIODE 1N4148M | | | |
| D811 | 8-719-210-21 | DIODE 11EQS04 | | | |
| D812 | 8-719-200-82 | DIODE 11ES2 | | | |
| D813 | 8-719-200-82 | DIODE 11ES2 | | | |
| D814 | 8-719-200-82 | DIODE 11ES2 | | | |
| D815 | 8-719-200-82 | DIODE 11ES2 | | | |
| D816 | 8-719-200-82 | DIODE 11ES2 | | | |
| D817 | 8-719-200-82 | DIODE 11ES2 | | | |
| D818 | 8-719-200-82 | DIODE 11ES2 | | | |
| D820 | 8-719-002-09 | DIODE UZL-18M | | | |
| | | < GROUND TERMINAL > | | | |
| EPT01 | 1-537-770-21 | TERMINAL BOARD, GROUND | | | |
| | | < IC > | | | |
| IC301 | 8-752-060-46 | IC CXA1561S | | | |
| IC302 | 8-759-634-51 | IC M5218AP | | | |
| IC303 | 8-759-634-51 | IC M5218AP | | | |
| IC304 | 8-752-060-64 | IC CXA1198AP | | | |
| IC305 | 8-759-710-59 | IC NJM4580D-D | | | |
| IC306 | 8-759-634-51 | IC M5218AP | | | |
| IC703 | 8-759-604-35 | IC M5F78M05L | | | |
| IC801 | 8-759-479-87 | IC HD6433724E66F | | | |
| IC802 | 8-759-165-85 | IC PST600H-T | | | |

# MAIN

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| IC804 | 8-759-822-09 | IC LB1641 | |
| IC805 | 8-759-288-53 | IC LA5617 | |
| | | < JACK > | |
| J301 | 1-770-720-11 | JACK, PIN 4P (TAPE (IN/OUT)) | |
| | | < COIL > | |
| L151 | 1-410-780-11 | INDUCTOR 27mH | |
| L251 | 1-410-780-11 | INDUCTOR 27mH | |
| L351 | 1-414-223-11 | INDUCTOR 470uH | |
| L352 | 1-414-223-11 | INDUCTOR 470uH | |
| | | < FILTER > | |
| LPF101 | 1-236-087-11 | FILTER, LOW PASS | |
| LPF201 | 1-236-087-11 | FILTER, LOW PASS | |
| | | < TRANSISTOR > | |
| Q101 | 8-729-900-80 | TRANSISTOR DTC114ES | |
| Q102 | 8-729-620-05 | TRANSISTOR 2SC2603-EF | |
| Q103 | 8-729-620-05 | TRANSISTOR 2SC2603-EF | |
| Q104 | 8-729-620-05 | TRANSISTOR 2SC2603-EF | |
| Q151 | 8-729-142-25 | TRANSISTOR 2SD1020-HFE | |
| Q201 | 8-729-900-80 | TRANSISTOR DTC114ES | |
| Q202 | 8-729-620-05 | TRANSISTOR 2SC2603-EF | |
| Q203 | 8-729-620-05 | TRANSISTOR 2SC2603-EF | |
| Q204 | 8-729-620-05 | TRANSISTOR 2SC2603-EF | |
| Q251 | 8-729-142-25 | TRANSISTOR 2SD1020-HFE | |
| Q301 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| Q310 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| Q351 | 8-729-900-80 | TRANSISTOR DTC114ES | |
| Q352 | 8-729-422-57 | TRANSISTOR UN4111 | |
| Q353 | 8-729-281-53 | TRANSISTOR 2SC1815-GR | |
| Q354 | 8-729-194-57 | TRANSISTOR 2SC945-P | |
| Q355 | 8-729-194-57 | TRANSISTOR 2SC945-P | |
| Q356 | 8-729-900-80 | TRANSISTOR DTC114ES | |
| Q357 | 8-729-900-80 | TRANSISTOR DTC114ES | |
| Q358 | 8-729-900-80 | TRANSISTOR DTC114ES | |
| Q359 | 8-729-900-80 | TRANSISTOR DTC114ES | |
| Q360 | 8-729-900-80 | TRANSISTOR DTC114ES | |
| Q801 | 8-729-620-05 | TRANSISTOR 2SC2603-EF | |
| Q803 | 8-729-422-57 | TRANSISTOR UN4111 | |
| Q806 | 8-729-900-89 | TRANSISTOR DTC144ES | |
| Q809 | 8-729-140-97 | TRANSISTOR 2SB734-34 | |
| Q810 | 8-729-140-97 | TRANSISTOR 2SB734-34 | |
| Q811 | 8-729-140-97 | TRANSISTOR 2SB734-34 | |
| Q812 | 8-729-900-80 | TRANSISTOR DTC114ES | |
| Q813 | 8-729-900-80 | TRANSISTOR DTC114ES | |
| Q814 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| Q815 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| | | < RESISTOR > | |
| R11 | 1-249-435-11 | CARBON 33K 5% 1/4W | |
| R12 | 1-249-435-11 | CARBON 33K 5% 1/4W | |
| R13 | 1-247-874-11 | CARBON 62K 5% 1/4W | |
| R14 | 1-249-439-11 | CARBON 68K 5% 1/4W | |
| R15 | 1-247-880-11 | CARBON 110K 5% 1/4W | |
| R16 | 1-247-878-00 | CARBON 91K 5% 1/4W | |
| R21 | 1-247-870-11 | CARBON 43K 5% 1/4W | |
| R22 | 1-249-438-11 | CARBON 56K 5% 1/4W | |
| R23 | 1-247-884-11 | CARBON 160K 5% 1/4W | |
| R24 | 1-247-872-11 | CARBON 51K 5% 1/4W | |
| R25 | 1-247-883-00 | CARBON 150K 5% 1/4W | |
| R26 | 1-247-887-00 | CARBON 220K 5% 1/4W | |
| R41 | 1-249-438-11 | CARBON 56K 5% 1/4W | |
| R42 | 1-247-876-11 | CARBON 75K 5% 1/4W | |
| R43 | 1-249-439-11 | CARBON 68K 5% 1/4W | |
| R44 | 1-247-876-11 | CARBON 75K 5% 1/4W | |
| R45 | 1-247-876-11 | CARBON 75K 5% 1/4W | |
| R46 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R101 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R102 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R103 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R104 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R105 | 1-247-843-11 | CARBON 3.3K 5% 1/4W | |
| R106 | 1-247-843-11 | CARBON 3.3K 5% 1/4W | |
| R107 | 1-249-428-11 | CARBON 8.2K 5% 1/4W | |
| R108 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R109 | 1-249-418-11 | CARBON 1.2K 5% 1/4W | |
| R110 | 1-249-433-11 | CARBON 22K 5% 1/4W | |
| R111 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R112 | 1-247-866-11 | CARBON 30K 5% 1/4W | |
| R113 | 1-249-439-11 | CARBON 68K 5% 1/4W | |
| R114 | 1-249-410-11 | CARBON 270 5% 1/4W | |
| R115 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R117 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R118 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R121 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R133 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R134 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R135 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R151 | 1-247-881-00 | CARBON 120K 5% 1/4W | |
| R152 | 1-249-404-00 | CARBON 82 5% 1/4W | |
| R153 | 1-247-882-11 | CARBON 130K 5% 1/4W | |
| R154 | 1-247-850-11 | CARBON 6.2K 5% 1/4W | |
| R155 | 1-249-430-11 | CARBON 12K 5% 1/4W | |
| R156 | 1-249-426-11 | CARBON 5.6K 5% 1/4W | |
| R157 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R158 | 1-247-843-11 | CARBON 3.3K 5% 1/4W | |
| R159 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R160 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R162 | 1-249-413-11 | CARBON 470 5% 1/4W | |
| R163 | 1-249-413-11 | CARBON 470 5% 1/4W | |
| R201 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R202 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R203 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R204 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R205 | 1-247-843-11 | CARBON 3.3K 5% 1/4W | |
| R206 | 1-247-843-11 | CARBON 3.3K 5% 1/4W | |
| R207 | 1-249-428-11 | CARBON 8.2K 5% 1/4W | |
| R208 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R209 | 1-249-418-11 | CARBON 1.2K 5% 1/4W | |
| R210 | 1-249-433-11 | CARBON 22K 5% 1/4W | |
| R211 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R212 | 1-247-866-11 | CARBON 30K 5% 1/4W | |
| R213 | 1-249-439-11 | CARBON 68K 5% 1/4W | |
| R214 | 1-249-410-11 | CARBON 270 5% 1/4W | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R215 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R221 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R233 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R234 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R235 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R251 | 1-247-881-00 | CARBON | 120K | 5% | 1/4W |
| R252 | 1-249-404-00 | CARBON | 82 | 5% | 1/4W |
| R253 | 1-247-882-11 | CARBON | 130K | 5% | 1/4W |
| R254 | 1-247-850-11 | CARBON | 6.2K | 5% | 1/4W |
| R255 | 1-249-430-11 | CARBON | 12K | 5% | 1/4W |
| R256 | 1-249-426-11 | CARBON | 5.6K | 5% | 1/4W |
| R257 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R258 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W |
| R259 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R260 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R301 | 1-215-452-00 | METAL | 20K | 1% | 1/4W |
| R302 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R303 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R304 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R305 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W |
| R306 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W |
| R307 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R308 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R309 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R310 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R311 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W |
| R312 | 1-249-436-11 | CARBON | 39K | 5% | 1/4W |
| R333 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W |
| R351 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R352 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R353 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R354 | 1-247-838-00 | CARBON | 2K | 5% | 1/4W |
| R355 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W |
| R356 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W |
| R357 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W |
| R358 | 1-249-390-11 | CARBON | 5.6 | 5% | 1/4W |
| R359 | 1-249-390-11 | CARBON | 5.6 | 5% | 1/4W |
| R360 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W |
| R361 | 1-247-838-00 | CARBON | 2K | 5% | 1/4W |
| R362 | 1-215-454-00 | METAL | 24K | 1% | 1/4W |
| R363 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R364 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R701 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R702 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R720 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R801 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R802 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R803 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R804 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R805 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R806 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W |
| R807 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R808 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R809 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R810 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R811 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R812 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R813 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R815 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| R816 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R817 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R818 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R819 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R820 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R821 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R822 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R823 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R824 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R827 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R828 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R829 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R830 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R832 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R835 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R836 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R837 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R838 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R839 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R840 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R841 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R842 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R845 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R846 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R849 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W |
| R850 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W |
| R863 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R864 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R865 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R870 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R871 | 1-249-440-11 | CARBON | 82K | 5% | 1/4W |
| R872 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R873 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R874 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R875 | 1-249-430-11 | CARBON | 12K | 5% | 1/4W |
| | | < VARIABLE RESISTOR > | | | |
| RV151 | 1-238-598-11 | RES, ADJ, CARBON 2.2K | | | |
| RV152 | 1-238-603-11 | RES, ADJ, CARBON 100K | | | |
| RV153 | 1-238-599-11 | RES, ADJ, CARBON 4.7K | | | |
| RV251 | 1-238-598-11 | RES, ADJ, CARBON 2.2K | | | |
| RV252 | 1-238-603-11 | RES, ADJ, CARBON 100K | | | |
| RV253 | 1-238-599-11 | RES, ADJ, CARBON 4.7K | | | |
| | | < RELAY > | | | |
| RY351 | 1-515-614-11 | RELAY | | | |
| | | < TRANSFORMER > | | | |
| T351 | 1-429-316-11 | TRANSFORMER, BIAS OSCILLATION | | | |
| | | < VIBRATOR > | | | |
| X801 | 1-577-358-21 | VIBRATOR, CERAMIC (4MHz) | | | |

**********

## PANEL

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| * | A-2007-722-A | PANEL BOARD, COMPLETE | | | |
| | | ********** | | | |
| * | 4-932-810-01 | CUSHION (FL) | | | |
| * | 4-946-899-01 | HOLDER (FL) | | | |
| | | < CAPACITOR > | | | |
| C1 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C2 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| | | < CONNECTOR > | | | |
| * CN302 | 1-568-848-11 | SOCKET, CONNECTOR 5P | | | |
| * CN852 | 1-568-869-11 | SOCKET, CONNECTOR 27P | | | |
| | | < DIODE > | | | |
| D851 | 8-719-057-09 | DIODE LNJ801LPDJA (CD SYNC) | | | |
| | | < FLUORESCENT INDICATOR TUBE > | | | |
| FLT851 | 1-517-317-21 | INDICATOR TUBE, FLUORESCENT | | | |
| | | < RESISTOR > | | | |
| R851 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W |
| R852 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R853 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R854 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W |
| R855 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R856 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W |
| R857 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R858 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R859 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W |
| R860 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R861 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R862 | 1-249-412-11 | CARBON | 390 | 5% | 1/4W |
| | | < VARIABLE RESISTOR > | | | |
| RV301 | 1-225-383-11 | RES, VAR, CARBON 50K/50K (REC LEVEL) | | | |
| | | < SWITCH > | | | |
| S851 | 1-762-196-21 | SWITCH, TACT (⏏ OPEN/CLOSE) | | | |
| S852 | 1-762-196-21 | SWITCH, TACT (■) | | | |
| S853 | 1-762-196-21 | SWITCH, TACT (❚❚) | | | |
| S854 | 1-762-196-21 | SWITCH, TACT (▷) | | | |
| S855 | 1-762-196-21 | SWITCH, TACT (◁) | | | |
| S856 | 1-762-196-21 | SWITCH, TACT (CD SYNC) | | | |
| S858 | 1-762-196-21 | SWITCH, TACT (◀◀) | | | |
| S859 | 1-762-196-21 | SWITCH, TACT (▶▶) | | | |
| S860 | 1-762-196-21 | SWITCH, TACT (● REC) | | | |
| S861 | 1-762-196-21 | SWITCH, TACT (RESET) | | | |
| S862 | 1-762-196-21 | SWITCH, TACT (DIRECTION) | | | |
| S863 | 1-762-196-21 | SWITCH, TACT (DOLBY NR) | | | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | MISCELLANEOUS | |
| | | ********** | |
| 12 | 1-782-490-11 | WIRE (FLAT TYPE) (5 CORE) | |
| 13 | 1-773-257-11 | WIRE (FLAT TYPE) (27 CORE) | |
| HRPE901 | | HEAD ASSY (RECORD/PLAYBACK/ERASE) | |
| M901 | 3-017-239-01 | PULLEY (MOTOR) (LOADING) | |
| M902 | 3-017-259-01 | PULLEY (MOTOR) (CAPSTAN/REEL) | |
| S901 | 3-017-238-01 | LIMITTER (SW MSS-8B) (OPEN) | |
| S902 | 3-017-238-01 | LIMITTER (SW MSS-8B) (CLOSE) | |
| | | ********** | |
| | | HARDWARE LIST | |
| | | ********** | |
| #1 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S | |
| #2 | 7-685-647-79 | SCREW +BVTP 3X10 TYPE2 N-S | |
| #3 | 7-685-132-19 | SCREW +P2.6X5 TYPE2 NON-SLIT | |
| #4 | 7-671-157-01 | SCREW, PRECISION +P1.4X2 | |
| #5 | 7-627-551-18 | SCREW, PRECISION +P1.4X2 | |
| #6 | 7-685-105-19 | SCREW +P2X8 TYPE2 NON-SLIT | |
| #7 | 7-621-255-20 | SCREW +P2X4 | |
| #8 | 7-685-645-79 | SCREW +BVTP 3X6 TYPE2 IT-3 | |
| #9 | 7-685-146-11 | SCREW +P3X8 TYPE2 NON-SLIT | |



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# TC-EX66

SONY

# SERVICE MANUAL

*AEP Model*
*UK Model*
*E Model*

# SUPPLEMENT-1

File this supplement with the service manual.

**Subject: Additton of service parts on CONTROL board**

(SPM-98013)

## PARTS LIST(CONTROL BOARD)

• Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * | 1-672-011-11 | CONTROL BOARD ********** | |
| | 3-017-287-01 | CONNECTOR,TERMINAL (RP) | |
| | | < DIODE > | |
| D001 | 8-719-987-63 | DIODE 1N4148M | |
| D002 | 8-719-987-63 | DIODE 1N4148M | |
| | | <IC > | |
| ICO01 | 3-017-289-01 | IC, HOLE, ROTARY DETECTION | |
| | | < SOLENOID > | |
| PM001 | 3-017-292-01 | SOLENOID | |
| | | < RESISTOR > | |
| R001 | 1-247-862-11 | CARBON 20K 5% 1/4W | |
| | | < SWITCH > | |
| S001 | 3-017-290-01 | SWITCH, DETECT (FWD REC DET) | |
| S002 | 3-017-290-01 | SWITCH, DETECT (HALF DET) | |
| S003 | 3-017-290-01 | SWITCH, DETECT (CrO2 DET) | |
| S004 | 3-017-290-01 | SWITCH, DETECT (METAL DET) | |
| S005 | 3-017-290-01 | SWITCH, DETECT (REV REC DET) | |
| S006 | 3-017-291-01 | SWITCH, MODE (MODE) | |

9-960-930-81

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**Home A&V Products Company**

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